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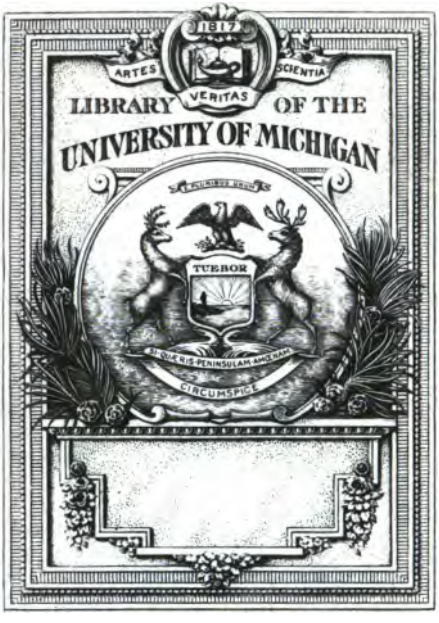

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LOGARITHMIC AND TRIGONOMETRIC

TABLES;

TO

SEVEN PLACES OF DECIMALS,

IN A POCKET FORM.

IN WHICH

THE ERRORS OF FORMER TABLES ARE CORRECTED.

A new Edition,

WITH INTRODUCTIONS IN THE ENGLISH AND FRENCH LANGUAGES

BY

F. R. HASSLER, M. A. P. S.

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INTRODUCTION.

UPON THE TABLES OF COMMON LOGARITHMS.

§ 1. Any quantity may be represented under the form of a power of another given quantity. With quantities thus represented the arithmetical operations of multiplication, division, raising to powers, either whole or fractional, are executed upon the exponents, by an operation always one degree less complicated, than when executed upon the quantities in their common form, viz: multiplication by the addition of the exponents, division by their subtraction, raising into powers, whole or fractional, by multiplication with the proper exponent, either whole or fractional. Thus, therefore, all quantities whatsoever, may be expressed by certain powers of one and the same quantity, taken as the *Base of the system*, and with such a base $(=b)$ we have the following algebraic form of the above four operations.

$$b^n\, b^m = b^{n+m}\,;\ \frac{b^n}{b^m} = b^{n-m}\,;\ (b^n)^m = b^{n\cdot m}\,;\ (b^n)^{\frac{p}{q}} = b^{\frac{np}{q}}$$

To the exponents corresponding to any number thus expressed by the power of some one general base, has been given the denomination of *Logarithms*, and the system forms what is called a logarithmic system.

§ 2. This principle gives rise to an arithmetic series, whose first term is $=0$, and which corresponds term for term to a geometric series of rapid increase, whose first term is $=1$: thus,

$$\text{Logarithms} = 0\,;\ 1\,;\ 2\,;\ 3\,;\ 4\,;\ 5\,;\ 6\,;\ \&c.$$
$$\text{Number} = 1\,;\ b^1\,;\ b^2\,;\ b^3\,;\ b^4\,;\ b^5\,;\ b^6\,;\ \&c.$$

There may evidently be an infinite number of logarithmic systems; the most usual for practical calculation, is that which is adapted to our decimal system of numeration, and which makes $b=10$. it therefore presents the following numerical series.

$$\text{Logarithms} = 0\,;\ 1\,;\ 2\,;\ 3\,;\ 4\,;\ 5\,;\ \&c.$$
$$\text{Numbers} = \begin{cases} 1\,;\ 10^1\,;\ 10^2\,;\ 10^3\,;\ 10^4\,;\ 10^5\,;\ \&c. \\ 1\,;\ 10\,;\ 100\,;\ 1000\,;\ 10000\,;\ 100000\,;\ \&c. \end{cases}$$

In this system the whole numbers in the exponents or logarithms, are evidently indicative of the number of digits in the number itself, and are always one less than this number of digits; thence this whole number is called the *Characteristic* of the logarithm. Any number intermediate between any two powers of ten, will therefore contain, besides the characteristic proper to the number of its digits, an approximating decimal fraction (called mantissa.) The characteristic being thus determined by the number of digits of the number, it is in this system, only necessary to know this decimal fraction, in order to operate with these logarithms upon any quantity whatever.

§ 3. Thence the use of logarithms, is exactly the same as that of the exponents in algebra; or we have

$$10^{\log n} = \mathcal{N};\ \text{and}\ 10^{\log n} \times 10^{\log m} = 10^{\log m + \log n}$$

the arithmetical operations to be performed by logarithms, are thus represented:

For multiplication : $log\ \mathcal{N} + log\ \mathcal{M} = log\ (\mathcal{N}.\ \mathcal{M})$

For division : $log\ \mathcal{N} - log\ \mathcal{M} = log \frac{\mathcal{N}}{\mathcal{M}}$

For raising to powers $\begin{cases} \text{whole : } \log \mathcal{N}^p = p \log \mathcal{N} \\ \text{fractional : } \log \mathcal{N}^{\frac{s}{q}} = \frac{s}{q} \log \mathcal{N} \end{cases}$

The import of these simple algebraic formulæ, is what is executed in the calculations by logarithms, and tables are calculated to an extent sufficient for every practical use, presenting the logarithms of the numbers for the powers of 10; and when inversely used, they again of course present the number to any result obtained in an operation performed by their means. Seven places of figures for the mantissa are generally sufficient, for even great practical accuracy.

§ 4. The arrangement of the logarithmic tables here given, is as follows: The first column of each page contains the natural number; the second column the logarithm corresponding to this number, and any of its products by *ten;* for any number of nulls that might follow it, would only increase the characteristic, by the principle stated § 2, and this characteristic is omitted, because it is determined by that principle.

The following columns headed 1, 2, 3, &c. to 9, each present four figures, which, written after the first three of the second column, extend the tables one place farther, indicated by this heading; these three first figures are therefore general and constant numbers, to be prefixed to the four others in either one of the 10 columns, until supplied by another constant number, which is indicated by the blank space left at the beginning of each alteration.

Thus the log. of 36520, being in the second column, headed 0, the log. of 36527 is composed of the three first figures standing separate in the column headed 0, and the four that stand in the same line in the column headed 7. Besides these columns, there are given small tables, headed by the difference between two successive logarithms, which contain the subdivision of this difference corresponding to the number indicated in their first columns, for one figure lower in the decimal system of numeration. These differences, therefore, extend the tables one digit farther, in the same manner as the columns after 0, have done for the preceding higher order; they may be extended one figure more, when needed, by removing the proportional part, which they give, one figure more to the right, but in this case it must be observed: that the nearest corresponding higher or lower figure of the 7th place is taken instead of the 8th, resulting, because the number of figures in the logarithms is never increased. Thus, if in the above example, the numbers were extended to 3652794, the proportional part for the 9 would be taken in the corresponding small table, and added to the log. of the preceding part, and the proportional part for the 4, being taken in the same table, the nearest number in the seventh place, would be taken instead of the 8th figure, and this added to the last result. The characteristic will be determined by the principle of § 2: thus if the numbers were all whole numbers, it would in the last case here be 6, if it were

36527,94 it would be 4; if 36,52794, it would be 1, &c.

§ 5. If the number is a decimal fraction without whole numbers, the best method is to consider it as a whole number, and instead of the characteristic of 10 being $=1$, to suppose it $=10$; this will give both the characteristic and the fractional part of the log. positive, and can lead to no mistake, as an error in this would increase the number of figures for eleven

places, within which the probable result is always ascertainable in some other manner; such log. may always be distinguished by using a full stop (.) after the characteristic, instead of a comma (,) as after the log. implying whole numbers ; this characteristic will indicate the first significant figure by counting from 10, downwards, so that 9 will correspond to 0,1 ; 8 to 0,01, and so on for all the rest ; so that as much as the characteristic is less than 10, so many is the number of 0's preceding the significant figures, the 0 of the unity being included. In the result as many tens of the characteristic will be rejected (if possible,) as tens have been introduced by the data of the calculation, which will be indicated by the number of (.) after the characteristic ; and if the characteristic is not sufficient, for all rejection, its keeping a (.) will denote that it belongs to a decimal fraction.

§ 6. To find the logarithm to a number, by the tables.

1st Example. To find the log. of 43560, having the same number of figures as the tables.

This is found directly in the column headed 0, opposite to 4356 in the first column, and there being 5 whole numbers, its characteristic will be 4 ; thus we obtain log. 43560 = 4,6390879.

If it had been 435,6 the characteristic would have been 2, and the fractional part of the log. the same as above.

2d Example. To find the log. of 921796,4 exceeding the tables by two places of figures ; as it has 6 whole figures, the characterestic will be = 5.

Opposite to 9217 in the first column, and in the column headed 9 will be found, by joining the characteristic and the three first general numbers of the column headed 0.

log. 92179	=	5,9646320	
for the subsequent number 6, the corresponding small table headed 47, gives	=	28	
and for the following number 4, it gives, by removing the result one figure to the right	=	1	9
The whole log. using 20 instead of 19 in the last part, as nearest in the 7th place, is	=	5,9646350	

3d Example. To find the log. of 319, having less figures than the tables. The addition of 0's, changing only the characteristic, this log. is the same as opposite 3190 in the column headed 0, and the charactertic is = 2. therefore

log. 319 = 2,5037907.

4th Example. To find the log. of 0,003759 a decimal fraction ; there being three nulls, the characteristic arising from the augmentation of 10, will be 7, after which must be placed a (.) and the logarithm of 3759 be taken, which makes

log. 0,003759 = 7.5750723.

§ 7. To find the number to a given logarithm. This is the inverse of the preceding process, the tables are therefore used inversely, thus : the given logarithm is compared with the nearest below it in the tables, the difference between the two being taken, the small tables on the side, used also in the inverse order of the preceding operation, will give the proportional parts of the number, to be added to the number in the columns of the tables, corresponding to the nearest lower log. first taken.

1st Example. To find the number corresponding to the logarithm 3,7144136. This is found exactly in the second column of the tables, headed 0, opposite to the number 5181. The characteristic 3, indicates four places of figures for the whole number, thence is obtained

3,7144136 = log 5181,0

2d Example. To find the number corresponding to the log. 2,1716387. This is again found exactly in the line of the number 1484 and the column headed 7, by uniting the 3 first figures of the column headed 0, with the 4 in that headed 7. Thence in adding the 7 to the number of the first column gives 2,1716387 = log. 148,47 with three whole figures, because of the characteristic = 2.

3d Ex. To find the number corresponding to the log. 5,3109537
The log. of the tables nearest below it is = ,3109481
corresponding to the number 20462 in the first column, by the union of the three leading figures of the column headed 0, with the four in that headed 2 ; taking the difference between the two log. = 56
and comparing it with the second column of the small table headed 212 (the corresponding difference) it gives for the first proportional part, from 42 the proportional number 2 ; the 42 deducted from the difference above is = 56 — 42 = 14; this increased by an 0, to extend the difference one figure farther, gives, in the same table, for 140 the nearest proportional number 7, it being only 8 more in the table, and therefore nearest, whence these two numbers added after the above, and the comma, which denotes the whole numbers, placed according to the known principles, for the characteristic, we obtain:

5,3109537 = log. 204622,7.

4th Ex. To find the number corresponding to the log. 6.3194267
where the (.) after the characteristic shows that it is a decimal fraction, therefore 10 too large; the 6 in the characteristic shews the first significant figure to be in the 4th place of decimals, and the nearest log. in the tables is 3194184, giving, by prefixing the number of 0's corresponding to the characteristic, = 0,00020865
the difference between the two logarithms is 83
which in the small table headed 208, corresponds exactly to 4
for the next following decimal; whence results:

6.3194267 = log. 0,000208654.

§ 8. The following examples will show the form in which the arithmetical operations, indicated in § 3, are executed; the log. being found by the direction of the two preceding sections.

A°. For multiplication or $\log. m + \log. n = \log. (m. n)$

1st Example. given n = 839,3 ; m = 1485,9

log n = log. 839,3 = 2,9239172
log m = log. 1485,9 = 3,1719896

log (m. n) = log. 1247116, = 6,0959068 = sum.

The difference with the nearest log.
of the tables (,0959013) or 55
corresponds in the small table headed 348 first to 1, for 35, and this deducted from 55, and the result augmented by a 0, giving 200, the nearest to which is 209, corresponding to 6, gives, in joining these numbers to the above, the characteristic taken into consideration, the final result:

(839,3) × (1485,9) = 1247116,

2°. Ex. If one of the factors be a decimal fraction the log. of which is taken with a characteristic 10 too large; as, suppose to be required the result of (1731,4) × (0,0329)

log. 1731,4 = 3,2383974
log. 0,0329 = 8.5171959

log. 56,96305 = 1,7555933 = Sum.
difference from nearest log. 4

the difference furnishing the two last figures from the small corresponding table headed 77.

If the first number had been only 17,314 the characteristic of its log. being only 1, that of the result would have been 9. indicating the decimal fraction = 0,5696305 for the ultimate result.

B°. To make a division the formula to execute is log. m — log n

thus: given m = 131,496 ; n = 72,931 ; or to execute $\frac{131,496}{72,931}$

gives log. 131,496 = 2,1189125
log. 72,931 = 1,8629122

log. 1,80302 = 0,2560003 = difference.
difference from tabular lower log. = 46
the nearest corresponding number of the small table headed 241 is = 2, which gives the last number of the above result. If the divisor had been greater than the dividend, the subtraction being made as above, with the supposition of the characteristic of the dividend increased by 10, the characteristic of the result would have been ten too large, and being used as shown before, the resulting quotient would be the corresponding decimal fraction.

§9. In larger calculations the subtraction of logarithms is inconvenient, therefore instead of subtracting the log. of the divisor, as above its arithmetic complement to ten in the characteristic is taken, and again distinguished by a (.) after the characteristic, and then added; this can easily be read out of the table itself, with a little habit in calculation; to obtain this, all the numbers of the logarithm, the characteristic included, are subtracted from 9, except the 7th, which is subtracted from 10. Thus treated the above example would stand

log. 131,496 = 2,1189125
ar. co. log. 72,931 = 8.1370878

log. 1,80302 = 0,2560003 = Sum.

By this method the result of a number of multiplications and divisions, mixed in a compound factor, are obtained by the simple addition of the corresponding logarithms of the multipliers and the ar. compl. of the divisors.

§10. To execute the raising into power of a number by its log. that is to execute log. $N^p = p$. log N of §3.

1st Example; log $(3,1415927)^3$ we find the
log. 3,1415927 = 0,4971499
multiplying by 3

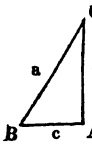
gives log. 31,00631 = 1,4914497

2d Example; to execute $(2713,79)^{\frac{1}{4}}$
log. 2713,79 = 3,4335762

the log. divided by 4 gives; log. 7,21762 = 0,8583940
12 = difference.
giving the last figure = 2.

UPON THE TRIGONOMETRIC TABLES.

§11. In a right angled triangle the geometric ratio of either two of the sides is determined by either of the two acute angles of the triangle, and this is called a *trigonometric function* of that angle; peculiar denominations have been given to them, thus:



In the triangle A. B. C. right angled in A, the sides being denoted by the small letters corresponding to the opposite angles, these ratios and their denominations are

$1^\circ = \frac{b}{a} =$ sine B $\qquad 4^\circ = \frac{a}{b} =$ cosecant B

$2^\circ = \frac{c}{a} =$ cosine B $\qquad 5^\circ = \frac{a}{c} =$ secant B

$3^\circ = \frac{b}{c} =$ tangent B $\qquad 6^\circ = \frac{c}{b} =$ cotangent B

Of these ratios the three last are the inverse of the three first, these three therefore suffice for all trigonometric calculations.

These ratios, expressed in decimal fractions, are the numbers that are given in the trigonometric tables. On account of the great advantage of logarithms in all calculations, their logarithms have been calculated, under the form above stated for decimal fractions, as supposing the characteristic increased by ten.

The two acute angles of a right angled triangle being complement the one of the other to one right angle, the above ratios formed upon B, apply to C. by changing the *sine* into *cosine; tangent* into *cotangent; secant* into *cosecant;* and inversely; the lines presenting, by this change, the same position towards the angle, C, as before the inversion towards B.

From one half right angle (45°) to the whole right angle (90°) the values of every one of these trigonometric functions recur again in an inverse order, and with the change just stated, as appropriated to the complementary angle, therefore the tables need be calculated only to 45° to serve for the whole circle. For an angle between 90° and 180° the same change takes place for its excess above 90°.

According to the effect of the arithmetic complements in logarithms, the arithmetic complements of the logarithms of the *sine*, *cosine*, and *tangent* give the logarithms of the *cosecant*, *secant* and *cotangent* respectively; the secants and cosecants are now always dispensed with, the cotangents have been retained, rather from habit, than from any necessity.

§12. In the following tables the log. sines and the log. tangents of the *first* degree are given for every single second, if more minuteness is required, the proportional parts for the decimals, must be determined by the differences, and even second differences of the given log.

The cosines of the first degree, varying but little, are given to every 30″ in a separate page, together with the cotangents; but when particular accuracy is desired the complement of the tangent of the complementary angle must be taken. Of the second and third degree the four trigonometric functions are given to every ten seconds; and the differences between each in the adjoining column; the proportional parts for single seconds, and decimals, are obtained by the product of this difference with these seconds, and parts, rejecting one figure to the right, besides what may be due to the decimals of seconds.

From the beginning of 3° up to 45° the log. of the trigonometric functions are given to every 30″ and the differences for 10″, which latter affords the same facility for the proportional parts as in the preceding part; these will most generally suffice to give directly the accuracy to an unity in the 7th place of the logarithm, but up to 7° the following method of determining the proportional parts is to be used, for the log. *sines*, *tangents*, and *cotangents;* namely until 15″ difference, inclusive, the *corresponding immediate difference* is used, to be added with the increasing, or subtracted with the decreasing function; from 15″ upwards to 30″, or the next whole minute, the logarithm of this latter must be used, and *the arithmetic mean between the corresponding difference and that next following* must be taken to form the proportional parts, that are now to be applied inversely.

§13. To introduce into the practical use of these tables the following examples may suffice.

1st Example; To find the log. sine and the log. tangent of 1° 21′ 14″ the tables give for

		diff.			diff.
1° 21′ 10″ l. sine	8.3730635	8907	l. tang.	8.3731845	8912
proportional parts for 4″ =	+ 3563			+ 3565	
for 1° 21′ 14″ l. sine =	8.3734198		l. tang.	8.3735410	

2d Ex. To find the log. sine and log. tang. of 4° 25′ 13″ the

		diff.			diff.
tables give for 4° 25′ 0″ l. sine	8.8865418	2725	l. tang.	8.8877334	2741
prop. parts for 13″ =	+ 3542			+ 3563	
for 4° 25′ 13″ =	8.8868960			8.8881897	

3d Ex. To find log. sine and log. tang. of 4° 39′ 19″

		mean diff.			mean diff.
tables for 4° 39′ 30″ l. sine =	8.9096294	2585	l. tang.	8.9110663	2603
prop. parts for 11″	— 2844			— 2863	
for 4° 39′ 19″ sine =	8.9093450		tang. =	8.9107800	

any other example for cosine, or other, will be the same, with the proper attention to the increase or decrease of the function; it is always proper to take the nearest tabular log. adding, or subtracting, as the case requires.

§14. The following examples will show the inverse operation of determining the angle from one of its trigonometric functions.

1st Ex. To find the angle the log. tang. of which is = 8.9410974
in the column of tangents the nearest value is = 8.9412237

corresponding to 4° 59′ 30″; difference = — 1263
the mean tabular difference between $\left\{\begin{matrix}2432\\2428\end{matrix}\right\}$ = 2430 forms a divisor to the difference 12630
found, increased by the addition of a 0, thus is obtained 2430
which executed gives the corresponding seconds = — 5″,2
thence the result 4° 59′ 30″ —5″,2 = 4° 59′ 24″, 8

2d Ex. To find the angle the log. sine of which is = 8.9568559
the nearest log. sine in the tables is = 8.9565897

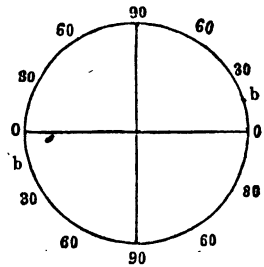
corresponding to 5° 11′ 30″; difference = + 2662
this difference multiplied by ten, and divided by the tabular difference, gives $\frac{26620}{2317}$ = 11,49 which added to the above, and taking the nearest tenth, gives the ultimate result 5° 11′ 41″,5.

UPON THE TABLES OF NATURAL SINES.

§15. The use of the trigonometric functions in natural numbers is altogether superseded by those in logarithms, on account of the much greater advantage of the latter. However natural sines may be used with advantage in plotting surveys, and wherever angles are to be constructed; with a view to this application they are introduced in this volume to every 30″; when the differences are not written immediately after the sines the preceding difference is considered as applicable.

The sine of an angle is half the chord of twice that same angle, or arc. Upon this principle I ground the following method of protracting the angles of a survey independantly from one another, and with an accuracy unattainable by any other mechanical means.

§16. Draw a fine straight line through the middle of the paper, in any convenient direction; if the survey is made with the compass, it will be best to accept the magnetic meridian; in others, one of the principal lines of the survey will be taken; to this also an exact perpendicular may be drawn. Either in the middle of this line, or in the intersection of the perpendiculars, draw a circle with a radius equal to 500 parts of a scale of 1000 parts; in this circle the intersection of the above line with the circumference will determine diametrically opposite points, as; 0. 0. from which, as also from 90°. if the 90° points have been determined, are laid off on both sides, with the same opening of the divider; the points determing the 60°. and in the second case also the 30° on each side of. 0. 0., will be marked; forming the elements of an accurate protractor for the whole map.



To lay off any angle by means of this protractor, as for instance 14° 29′, the half of it being 7° 14′ 30″. find in the tables the natural sine of this half angle, and find its tabular value = 0,1260047 which, in the adopted scale of thousand parts, will give 126,005 taking this distance in the dividers, the intersection of it with the circumference of the circle, from the line 0. 0. and on both opposite sides of the same, will determine the proper points b, b; the line drawn between them passes through the centre of the circle; to this a line will be drawn parallel, by means of rule and triangle, at any point of the map that will make the angle 14° 29′ with the direction 0. 0. If the angle is above 30°. either its complement to 60° is taken, and the distance is laid off backwards from the point of 60°, or 30° is subtracted, if this point be marked, and the operation performed as above, with the remainder; in like manner an angle between 60° and 90° or in fact any larger one may be made; the angle intended to be used is always brought *within* half the distance between two divisions, that it may come within the easy reach of a common divider, and the points may be made with nearer perpendicular legs, for greater accuracy; the laying off of two diametrically opposite points affords a proof of the accuracy of their placing, and secures more accuracy. If found necessary or convenient, on large papers, several such circles may be drawn in the prolongation of the lines 0, 0, or its perpendicular. With a little practice, easily acquired, this method will be found much quicker than laying off with a protractor, or scale, with which no angle can be laid off with satisfactory accuracy; particularly when the angles are laid off dependant upon one another successively.

$$\text{Refr.}=56,''9 \text{ tang. (D.Z.}-3,2 \text{ Refr.)} \frac{\text{B.A.}}{29,6} \cdot \frac{500}{450+Th.}$$

USEFUL NUMBERS AND FORMULÆ.

Circumference of the Circle in Diameters = 3,1415926535897932384 63 log. = 0,4971499
Circumference in seconds = 1296000 log. = 6,1126050
Arc equal to Radius = 57°. 17'. 44",8 = 205264,"8 log. = 5,3144251
1°. in parts of Radius = 0,017453292519943295769236908 log. = 8,2418774
Modulus of common log. = 2,3025850929940456840179914547 log. = 0,4342944819032518276 8
Log. nat. $N = 2,3025850930 \times$ log. vulg. N.
Basis of natural Logarithms = 2,7182818284590452353602874713526624 08
Metre in English inches = 39,3809171 } at 32°. Fahr: log. = 1,5959853
French toise = 76,74334472 } at 32°. Fahr: log. = 1,8850408
Metre in parts of French toise = 0,5131704 log. = 9,7102513
French Kilogramme in English imperial lbs. Troy. = 2,67937 log. = 0,4280326
——litre ——gallons. = 0,2209687 log. = 9,3443308
British imperial gallon = 277,274 cub. inch log. = 2,4429092
Bar 30" Ther. 62° F. 1 cubic inch distilled water = 252,458 gr. Troy log. = 2,4021892

	Specific gravity.	Expansion from freezing, to boiling of Water.
Platinum	19,500—22,669	0,0008842
Iron	7,207—7,788	0,0012534363
Brass	8,396—8,544	0,0018716254
Mercury	13,598	0,018018
Gold	19,258—19,361	0,001466
Silver	10,474	0,001909
Water	1,0	0,0466

Greatest density of Water is 39°,83 Fahr.
——expansibility of air at 57°, 87 Fahr.
Velocity of sound in 1 second time = 1142 feet English. log. = 3,0576661
Fall of heavy bodies in 1" = 16,089
Diameter of earth in English feet (mean) = 41836620. log. = 7,6215546
Ellipticity of earth, by measures = 0,003415; by Pendulum = 0,0034483; by ☾ s. theory. = 0,0032787;
Length of Pendulum at { Paris, = 39,12843 Borda 39,12820 Sabine. London, = 39,13908 New-York, = 39,10120 }
New-York, (City Hall,) latitude = 40°. 42'. 39",4 **longitude** = 74°. 03'. 05",2.
Difference of longitude between Paris and Greenwich = 2°. 30'. 17",73 = 0. 9'. 21",17.
Seconds of time in 24 hours = 86400" log. = 4,9366137

		d h m s	
24 hours mean solar time	=	1. 00. 03. 56,5564	**Sidereal time.**
——sidereal time	=	23. 56. 04,0907	**mean solar time.**
Mean Acceleration of fixed stars	=	0. 3. 55,9093	—— —— ——
Sidereal year	=	365. 6. 9. 10,7496	—— —— ——
Tropical year	=	365. 5. 48. 47,8192	—— —— ——
Sidereal revolution of the Moon	=	29, 51305885.	
Synodic Month	=	27, 3215830.	

Distance of the Earth from the Sun in Earth Diameters. = 12196,8 log. = 4,0862489
——Moon. { greatest = 32,744 log. = 1,5151317 smallest = 27,958 log. = 1,4465061 }
Mean horizontal Parallax of ☉ = 8",6
——☾ { greatest = 61'.26" smallest = 53. 46 }
Diameter of the Sun, in Earth's Diameters = 111,74.
——Moon. = 0,27293.
Mass of the Sun, the Earth being Unity, = 329630,0.
——Moon. = 0,0146.

Aberr. of * in AR = — 20",253 (cos. ω cos. AR * cos. long. ☉ + sin. AR * sin. long. ☉) : cos. δ
——Decl. = — 20",253 cos. long. ☉ (sin. ω cos. δ — sin. δ sin. AR * cos. ω)
+ 20",253 sin. δ cos. AR * sin. long. ☉
Nutat. of * in AR = — sin. ☊ (16",5441 + 7",1822 tang. δ sin. AR *)
— 9",643 tang. δ cos. AR * sin. ☊
——Decl. = 9,64 sin AR * cos. ☊ — 7",1822 cos. AR. * sin. ☊

REDUCTION OF CIRCUM-MERIDIAN ALTITUDES.

$$X = \frac{2 \sin.^2 \frac{1}{2} P. \cos. D. \cos. L.}{\sin. 1'' \sin. (L \pm D.)} \left(+ 1 - \sin^2 \tfrac{1}{2} P. \frac{\cos. L. \cos. D. \cot. (L \pm D)}{\sin. (L \pm D.)} \right)$$

CORRECTION OF NOON BY CORRESPONDING ALTITUDES.

$$C = \Delta . (- \text{tang.} L + \text{tang.} D) . t : 360^\circ . \sin. (15^\circ . t)$$

ELEMENTS OF SUN'S APPARENT ORBIT; for 1800 + t.

General annual precession of Equinox = 50", 22360 + (0,0002443610) t
Inclination of Ecliptic to true Equator = 23°. 27'. 54",8 — (0",457) t + (8",97707) cos. ☊
— (0",08773) cos. 2☊ + (0",57990) cos. 2 ☉ + (0",08738) cos. 2 ☾
Excentricity of Earth's orbit = 0,0167922585 — (0,0000004359) t
Longitude Perigee = 279°. 30'. 08",39 + (61',5171) t + (0",0002037965) t^2
Mean Longitude of sun = 279°. 54'. 01",36 + (27",605844) t + (0",00012218 05) t^2

FORMULÆ OF PLANE TRIGONOMETRY.

Data.	Sought.	Final Formulæ.	Auxiliaries.
b, c, B	C	$\sin C = \dfrac{c \sin B}{b}$	
b, B, C	c	$c = \dfrac{b \sin C}{\sin B}$	$B = 90° - \frac{1}{2} A + \frac{1}{2} (B + C)$
b, c, A	$B - C$	$\tan \frac{1}{2} (B - C) = \cot \frac{1}{2} A \dfrac{b - c}{b + c}$	$C = 90° - \frac{1}{2} A - \frac{1}{2} (B - C)$
a, B, c	b	$b = \dfrac{a \sin c}{\cos x}$	$\tan x = \dfrac{2 \sin \frac{1}{2} B}{a \sin c} (a c)^{\frac{1}{2}}$
		$b = (a + c) \sin x$	$\cos x = \dfrac{2 \cos \frac{1}{2} B}{a + c} (a c)^{\frac{1}{2}}$
a, b, c	B	$\tan \frac{1}{2} B = \left(\dfrac{(p - a)(p - c)}{p(p - b)} \right)^{\frac{1}{2}}$	$p = \dfrac{a + b + c}{2}$

FORMULÆ OF SPHERIC TRIGONOMETRY.

c, B, b	C	$\sin C = \dfrac{\sin B \sin c}{\sin b}$	
B, c, C	b	$\sin b = \dfrac{\sin B \sin c}{\sin C}$	
a, b, c	A	$\tan \frac{1}{2} A = \left(\dfrac{\sin (p - c) \sin (p - b)}{\sin p \sin (p - a)} \right)^{\frac{1}{2}}$	$p = \dfrac{a + b + c}{2}$
A, B, C	a	$\tan \frac{1}{2} a = \left(\dfrac{\cos P \cos (P - A)}{\cos (P - C) \cos (P - B)} \right)^{\frac{1}{2}}$	$P = \dfrac{A + B + C}{2}$
A, c, b	a	$\sin \frac{1}{2} a = \dfrac{\sin \frac{1}{2} (c \sin b)}{\cos Z}$	$\tan Z = \dfrac{\sin \frac{1}{2} A}{\sin \frac{1}{2} (c \sin b)} \left(\sin b \sin c \right)^{\frac{1}{2}}$
B, a, C	A	$\sin \frac{1}{2} A = \dfrac{\cos \frac{1}{2} (B + C)}{\cos Z}$	$\tan Z = \dfrac{\sin \frac{1}{2} a}{\cos \frac{1}{2} (B + C)} \left(\sin B \sin C \right)^{\frac{1}{2}}$
C, a, b	$A, B,$	$\tan \frac{1}{2} (A + B) = \cot \frac{1}{2} C . \dfrac{\cos \frac{1}{2} (a \sin b)}{\cos \frac{1}{2} (a + b)}$	
		$\tan \frac{1}{2} (A \sin B) = \cot \frac{1}{2} C . \dfrac{\sin \frac{1}{2} (a \sin b)}{\sin \frac{1}{2} (a + b)}$	
A, c, B	$a, b,$	$\tan \frac{1}{2} (a + b) = \tan \frac{1}{2} c . \dfrac{\cos \frac{1}{2} (B \sin A)}{\cos \frac{1}{2} (B + A)}$	
		$\tan \frac{1}{2} (a \sin b) = \tan \frac{1}{2} c . \dfrac{\sin \frac{1}{2} (A \sin B)}{\sin \frac{1}{2} (A + B)}$	
a, A, b	c	$c = x \underset{\sin}{+} y$ $\tan x = \cos A \tan b$	$\sin B = \dfrac{\sin A \sin b}{\sin a}$
		$\tan y = \tan a \cos B$	
A, a, B	C	$C = x \underset{\sin}{+} y$ $\cot x = \cos a \tan B$	$\sin b = \dfrac{\sin a \sin B}{\sin A}$
		$\cot y = \tan A \cos b$	
B, a, C	c	$c = x \underset{\sin}{+} y$ $\tan x = \tan a \cos B$ $\tan y = \tan b \cos A$	$\sin b = \dfrac{\sin B \sin a}{\sin A}$
b, a, A	C	$C = x \underset{\sin}{+} y$ $\cot x = \cos a \tan B$ $\cot y = \cos b \tan A$	$\sin B = \dfrac{\sin A \sin b}{\sin a}$

N.	0	1	2	3	4	5	6	7	8	9
1000	000 0000	0434	0869	1303	1737	2171	2605	3039	3473	3907
01	4341	4775	5208	5642	6075	6510	6943	7377	7810	8244
02	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576
03	001 3009	3442	3875	4308	4741	5174	5607	6039	6472	6905
04	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228
1005	002 1661	2093	2525	2957	3389	3821	4253	4685	5116	5548
06	5980	6411	6843	7275	7706	8138	8569	9001	9432	9863
07	003 0295	0726	1157	1588	2019	2451	2882	3313	3744	4174
08	4605	5036	5467	5898	6328	6759	7190	7620	8051	8481
09	004 8912	9342	9772	0203	0633	1063	1493	1924	2354	2784
1010	3214	3644	4074	4504	4933	5363	5793	6223	6652	7082
11	005 7512	7941	8371	8800	9229	9659	0088	0517	0947	1376
12	1805	2234	2663	3092	3521	3950	4379	4808	5237	5666
13	6094	6523	6952	7380	7809	8238	8666	9094	9523	9951
14	006 0380	0808	1236	1664	2092	2521	2949	3377	3805	4233
1015	4660	5088	5516	5944	6372	6799	7227	7655	8082	8510
16	007 8937	9365	9792	0219	0647	1074	1501	1928	2355	2782
17	3210	3637	4064	4490	4917	5344	5771	6198	6624	7051
18	008 7478	7904	8331	8757	9184	9610	0037	0463	0889	1316
19	1742	2168	2594	3020	3446	3872	4298	4724	5150	5576
1020	6002	6427	6853	7279	7704	8130	8555	8981	9407	9832
21	009 0257	0683	1108	1533	1959	2384	2809	3234	3659	4084
22	4509	4934	5359	5784	6208	6633	7058	7483	7907	8332
23	010 8756	9181	9605	0030	0454	0878	1303	1727	2151	2575
24	3000	3424	3848	4272	4696	5120	5544	5967	6391	6815
1025	011 7239	7662	8086	8510	8933	9357	9780	0204	0627	1050
26	1474	1897	2320	2743	3166	3590	4013	4436	4859	5282
27	5704	6127	6550	6973	7396	7818	8241	8664	9086	9509
28	012 9931	0354	0776	1198	1621	2043	2465	2887	3310	3732
29	4154	4576	4998	5420	5842	6264	6685	7107	7529	7951
1030	013 8372	8794	9215	9637	0059	0480	0901	1323	1744	2165
31	2587	3008	3429	3850	4271	4692	5113	5534	5955	6376
32	014 6797	7218	7639	8059	8480	8901	9321	9742	0162	0583
33	1003	1424	1844	2264	2685	3105	3525	3945	4365	4785
34	5205	5625	6045	6465	6885	7305	7725	8144	8564	8984
1035	015 9403	9823	0243	0662	1082	1501	1920	2340	2759	3178
36	3598	4017	4436	4855	5274	5693	6112	6531	6950	7369
37	016 7788	8206	8625	9044	9462	9881	0300	0718	1137	1555
38	1974	2392	2810	3229	3647	4065	4483	4901	5319	5737
39	6155	6573	6991	7409	7827	8245	8663	9080	9498	9916
1040	017 0333	0751	1168	1586	2003	2421	2838	3256	3673	4090
41	4507	4924	5342	5759	6176	6593	7010	7427	7844	8260
42	018 8677	9094	9511	9927	0344	0761	1177	1594	2010	2427
43	2843	3259	3676	4092	4508	4925	5341	5757	6173	6589
44	019 7005	7421	7837	8253	8669	9084	9500	9916	0332	0747
1045	1163	1578	1994	2410	2825	3240	3656	4071	4486	4902
46	5317	5732	6147	6562	6977	7392	7807	8222	8637	9052
47	020 9467	9882	0296	0711	1126	1540	1955	2369	2784	3198
48	3613	4027	4442	4856	5270	5684	6099	6513	6927	7341
49	021 7755	8169	8583	8997	9411	9824	0238	0652	1066	1479
1050	1893	2307	2720	3134	3547	3961	4374	4787	5201	5614
51	6027	6440	6854	7267	7680	8093	8506	8919	9332	9745
52	022 0157	0570	0983	1396	1808	2221	2634	3046	3459	3871
53	4284	4696	5109	5521	5933	6345	6758	7170	7582	7994
54	023 8406	8818	9230	9642	0054	0466	0878	1289	1701	2113
1055	2525	2936	3348	3759	4171	4582	4994	5405	5817	6228
56	024 6639	7050	7462	7873	8284	8695	9106	9517	9928	0339
57	0750	1161	1572	1982	2393	2804	3214	3625	4036	4446
58	4857	5267	5678	6088	6498	6909	7319	7729	8139	8549
59	025 8960	9370	9780	0190	0600	1010	1419	1829	2239	2649
N.	0	1	2	3	4	5	6	7	8	9

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434			
1	43		
2	87	433	
3	130		
4	174	432	
5	217	1	43
6	260	2	86
7	304	3	130
8	347	4	173
9	391	5	216
		6	259
		7	302
429		8	346
		9	389
428			
1	43		
2	86	427	
3	128		
4	171	426	
5	214	1	43
6	257	2	85
7	300	3	128
8	342	4	170
9	385	5	213
		6	256
		7	298
423		8	341
		9	383
422			
1	42		
2	85	421	
3	127		
4	169	420	
5	212	1	42
6	254	2	84
7	296	3	126
8	338	4	168
9	381	5	211
		6	253
		7	295
417		8	337
		9	379
416			
1	42		
2	83		
3	125		
4	167	415	
5	209		
6	250		
7	292	414	
8	334	1	41
9	375	2	83
		3	124
		4	166
411		5	207
		6	248
		7	290
410		8	331
1	41	9	373
2	82		
3	123		
4	164		
5	206		
6	247		
7	288		
8	330		
9	371		

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1060	025 3059	3468	3878	4288	4697	5107	5516	5926	6335	6744
61	026 7154	7563	7972	8382	8791	9200	9609			
62	1245	1654	2063	2472	2881	3289	3698	0018	0427	0836
63	5333	5741	6150	6558	6967	7375	7783	4107	4515	4924
64	027 9416	9824	0233	0641	1049	1457	1865	8192	8600	9008
1065	3496	3904	4312	4719	5127	5535	5942	2273	2680	3088
66	028 7572	7979	8387	8794	9201	9609	0016	6350	6757	7165
67	1644	2051	2458	2865	3272	3679	4086	0423	0830	1237
68	5713	6119	6526	6932	7339	7745	8152	4492	4899	5306
69	029 9777	0183	0590	0996	1402	1808	2214	8558	8964	9371
1070	3838	4244	4649	5055	5461	5867	6272	2620	3026	3432
71	030 7895	8300	8706	9111	9516	9922		6678	7084	7489
72	1948	2353	2758	3163	3568	3973	0327	0732	1138	1543
73	5997	6402	6807	7211	7616	8020	4378	4783	5188	5592
74	031 0043	0447	0851	1256	1660	2064	8425	8830	9234	9638
1075	4085	4489	4893	5296	5700	6104	2468	2872	3277	3681
76	032 8123	8526	8930	9333	9737		6508	6912	7315	7719
77	2157	2560	2963	3367	3770	0140	0544	0947	1350	1754
78	6188	6590	6993	7396	7799	4173	4576	4979	5382	5785
79	033 0214	0617	1019	1422	1824	8201	8604	9007	9409	9812
1080	4238	4640	5042	5444	5846	2226	2629	3031	3433	3835
81	034 8257	8659	9060	9462	9864	6248	6650	7052	7453	7855
82	2273	2674	3075	3477	3878	0265	0667	1068	1470	1871
83	6285	6686	7087	7487	7888	4279	4680	5081	5482	5884
84	035 0293	0693	1094	1495	1895	8289	8690	9091	9491	9892
1085	4297	4698	5098	5498	5898	2296	2696	3096	3497	3897
86	8298	8698	9098	9498	9898	6298	6698	7098	7498	7898
87	036 2295	2695	3094	3494	3893	0297	0697	1097	1496	1896
88	6289	6688	7087	7486	7885	4293	4692	5091	5491	5890
89	037 0279	0678	1076	1475	1874	8284	8683	9082	9481	9880
1090	4265	4663	5062	5460	5858	2272	2671	3070	3468	3867
91	038 8248	8646	9044	9442	9839	6257	6655	7053	7451	7849
92	2226	2624	3022	3419	3817	0237	0635	1033	1431	1829
93	6202	6599	6996	7393	7791	4214	4612	5009	5407	5804
94	039 0173	0570	0967	1364	1761	8188	8585	8982	9379	9776
1095	4141	4538	4934	5331	5727	2158	2554	2951	3348	3745
96	8106	8502	8898	9294	9690	6124	6520	6917	7313	7709
97	040 2056	2452	2858	3254	3650	0086	0482	0878	1274	1670
98	6023	6419	6814	7210	7605	4045	4441	4837	5232	5628
99	9977	0372	0767	1162	1557	8001	8396	8791	9187	9582
1100	041 3927	4322	4716	5111	5506	1952	2347	2742	3137	3532
01	7873	8268	8662	9056	9451	5900	6295	6690	7084	7479
02	042 1816	2210	2604	2998	3392	9845	0239	0633	1028	1422
03	5755	6149	6543	6936	7330	3786	4180	4574	4968	5361
04	043 9694	0084	0477	0871	1264	7723	8117	8510	8904	9297
1105	3623	4016	4409	4802	5195	1657	2050	2444	2837	3230
06	7551	7944	8337	8729	9122	5587	5980	6373	6766	7159
07	044 1476	1869	2261	2653	3045	9514	9907	0299	0692	1084
08	5398	5790	6181	6573	6965	3437	3829	4222	4614	5006
09	9315	9707	0099	0490	0882	7357	7749	8140	8532	8924
1110	045 3230	3621	4012	4403	4795	1273	1664	2056	2447	2839
11	7141	7531	7922	8313	8704	5186	5577	5968	6359	6750
12	046 1048	1438	1829	2219	2610	9095	9485	9876		
13	4952	5342	5732	6122	6512	3000	3391	3781	0267	0657
14	8852	9242	9632			6902	7292	7682	4171	4561
1115	047 2749	3138	3528	3917	4306	0801	1190	1580	8072	8462
16	6642	7031	7420	7809	8198	4696	5085	5474	1970	2359
17	048 0532	0921	1309	1698	2087	8587	8976	9365	5864	6253
18	4418	4806	5195	5583	5972	2475	2864	3253	9754	0143
19	049 8301	8689	9077	9465	9853	6360	6748	7136	3641	4030
						0241	0629	1017	7525	7913
									1405	1792
N.	0	1	2	3	4	5	6	7	8	9

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408 407
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N.		0	1	2	3	4	5	6	7	8	9
1120	049	2180	2368	2956	3343	3[illegible]	4119	4506	4894	5281	5669
21		6056	6444	6831	7218	760[illegible]	7993	8380	8767	9154	9541
22	050	9929	0316	0703	1090	14[illegible]	1863	2250	2637	3024	3411
23		3798	4184	4571	4958	53[illegible]	5731	6117	6504	6890	7277
24	051	7663	8049	8436	8822	92[illegible]	9595	9981	0367	0753	1139
1125		1525	1911	2297	2683	30[illegible]	3456	3841	4227	4612	4998
26		5384	5770	6155	6541	69[illegible]	7312	7697	8083	8468	8854
27	052	9239	9624		0010	0395	0781	1166	1551	1936	2321
28		3091	3476	3861	4246	46[illegible]	5016	5400	5785	6170	6555
29	053	6939	7324	7709	8093	84[illegible]	8862	9247	9631		0016
1130		0784	1169	1553	1937	23[illegible]	2706	3090	3474	3858	4242
31		4626	5010	5394	5778	61[illegible]	6546	6929	7313	7697	8081
32	054	8464	8848	9232	9615	99[illegible]					
33		9999	0382	0766	3449	38[illegible]	0382	0766	1149	1532	1916
34		6131	6514	6896	7279	76[illegible]	4215	4598	4981	5365	5748
1135	055	9569		0341	0724	1106	8045	8428	8811	9193	9576
36		3783	4166	4548	4930	53[illegible]	1871	2254	2636	3019	3401
37	056	7605	7987	8369	8750	91[illegible]	5694	6077	6459	6841	7223
38		1423	1804	2186	2567	29[illegible]	9614	9896	0278	0659	1041
39		5237	5619	6000	6381	67[illegible]	3330	3712	4093	4475	4856
1140	057	9049	9429	9810	0191	05[illegible]	7143	7524	7905	8287	8668
41		2856	3237	3618	3998	43[illegible]	0953	1334	1714	2095	2476
42	058	6664	7041	7422	7802	81[illegible]	4769	5140	5520	5900	6281
43		0462	0842	1222	1602	19[illegible]	8662	8942	9322	9702	0082
44		4260	4640	5019	5399	57[illegible]	2362	2741	3121	3501	3881
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46		1845	2225	2604	2983	33[illegible]	9981	0330	0709	1088	1467
47		5634	6013	6391	6770	71[illegible]	3741	4119	4498	4877	5256
48	060	9419	9797	0175	0554	09[illegible]	7527	7905	8284	8662	9041
49		3200	3578	3956	4334	47[illegible]	1310	1688	2066	2444	2822
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51		0753	1131	1508	1885	22[illegible]	8866	9244	9621	9999	0376
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54		2058	2434	2811	3187	35[illegible]	0176	0552	0929	1305	1682
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57		3334	3709	4084	4460	48[illegible]	1456	1832	2207	2583	2958
58	064	7086	7461	7836	8211	85[illegible]	5210	5585	5960	6335	6711
59		0834	1209	1584	1958	23[illegible]	8960	9335	9710	0085	0460
1160		4580	4954	5329	5703	60[illegible]	2768	3082	3457	3831	4205
61	065	8322	8696	9070	9444	98[illegible]	6451	6826	7200	7574	7948
62		2061	2435	2809	3182	35[illegible]	0192	0566	0940	1314	1688
63		5797	6171	6544	6917	72[illegible]	3930	4303	4677	5050	5424
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1315	9265	9588	6615	6945	7276	7606	7936	8267	8597	2229
16	119 2559	2889	0248	0578	0909	1239	1569	1899	2229	5528
17	5868	6187	3219	3549	3879	4209	4539	4868	5198	8825
18	9164	9484	6517	6847	7177	7506	7836	8165	8495	2119
19	120 2448	2777	0143	0472	0801	1131	1460	1789	2119	5410
1320	5759	6068	3106	3436	3765	4094	4423	4752	5081	8699
21	9025	9367	6377	6726	7055	7384	7713	8042	8371	1986
22	121 2335	2643	0014	0343	0672	1000	1329	1657	1986	5270
23	5638	5927	3272	3600	3928	4257	4585	4914	5242	8562
24	8940	9208	6255	6583	6911	7239	7568	7896	8224	1831
1325	122 2159	2487	0236	0564	0892	0520	0848	1175	1503	5108
26	5436	5763	3814	3142	3470	3797	4125	4453	4780	8382
27	8709	9036	6090	6418	6745	7073	7400	7727	8055	1654
28	123 1981	2308	0364	0692	1000	0345	0672	1000	1327	4923
29	5250	5577	3635	3962	3289	3616	3942	4269	4596	8190
1330	8516	8843	6903	6230	6557	6883	7210	7537	7863	1454
31	124 1781	2107	0169	0496	0822	0149	0475	0802	1128	4716
32	5042	5368	3433	3759	3086	3412	3738	4064	4390	7976
33	8301	8627	6694	6020	6346	6672	6998	7324	7650	1233
34	125 1558	1884	0955	0281	0607	0933	0260	0586	0907	4487
1335	4813	5138	3213	3538	3864	4189	4514	4839	5164	7739
36	8065	8390	6471	6796	7122	7447	7772	8097	8422	0989
37	126 1314	1639	0730	0055	0380	0705	0030	0355	0680	4237
38	4561	4886	3988	3313	3638	3963	3287	3612	3937	7481
39	7806	8130	6246	6571	6895	7220	7544	7869	8193	0724
1340	127 1048	1372	0504	0828	0153	0477	0801	0126	0450	3964
41	4288	4612	3763	3987	3312	3636	3960	3285	3609	7202
42	7528	7849	6021	6345	6669	6993	7317	7641	7965	0113
43	128 0760	1083	0279	0603	0926	0250	0573	0897	1220	3670
44	3993	4316	3539	3862	3185	3508	3831	3154	3477	6900
1345	7223	7546	6799	6122	6445	6768	7091	7414	7736	0128
46	129 0451	0773	0056	0378	0701	0024	0346	0669	0991	3354
47	3676	3998	3311	3633	3955	3278	3600	3922	4244	6577
48	6899	7221	6566	6888	7210	7532	7854	7176	7498	9798
49	130 0119	0441	0763	0086	0407	0729	0051	0373	0694	3016
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51	6553	6875	7196	7518	7839	8161	8482	8803	9124	9446
52	131 9767	0088	0409	0730	1052	1373	1694	2015	2336	2657
53	2978	3299	3620	3941	4262	4583	4903	5224	5545	5866
54	6187	6507	6828	7149	7469	7790	8111	8431	8752	9072
1355	132 9393	9713	0034	0354	0675	0995	1316	1636	1956	2277
56	2597	2917	3237	3558	3878	4198	4518	4838	5158	5478
57	5798	6119	6439	6758	7078	7398	7718	8038	8358	8678
58	8998	9317	9637	9957						
59	133 0277	0596	0916	1236	1555	1875				
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7	232	4	132	2	66					
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7	230	5	164	3	98					
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7	228	5	162	2	65					
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62	1771	2090	2409	2728	3046	3365	3684	4003	4321	4640
63	4959	5277	5596	5914	6233	6551	6870	7188	7507	7825
64	135 8144	8462	8780	9099	9417	9735	0054	0372	0690	1008
1365	1327	1645	1963	2281	2599	2917	3235	3553	3871	4189
66	4507	4825	5143	5461	5779	6096	6414	6732	7050	7367
67	136 7685	8003	8320	8638	8956	9273	9591	9908	0226	0543
68	0861	1178	1496	1813	2131	2448	2765	3083	3400	3717
69	4034	4352	4669	4986	5303	5620	5937	6255	6572	6889
1370	137 7206	7523	7840	8157	8473	8790	9107	9424	9741	0058
71	0375	0691	1008	1325	1641	1958	2275	2591	2908	3225
72	3541	3858	4174	4491	4807	5124	5440	5756	6073	6389
73	6705	7022	7338	7654	7970	8287	8603	8919	9235	9551
74	138 9867	0183	0499	0815	1131	1447	1763	2079	2395	2711
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76	6184	6500	6816	7131	7447	7762	8078	8393	8709	9024
77	139 9339	9655	9970	0285	0601	0916	1231	1547	1862	2177
78	2492	2807	3122	3438	3753	4068	4383	4698	5013	5328
79	5643	5958	6272	6587	6902	7217	7532	7847	8161	8476
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	140				0050	0364	0679	0993	1308	1622
81	1937	2251	2566	2880	3195	3509	3823	4138	4452	4766
82	5080	5395	5709	6023	6337	6651	6966	7280	7594	7908
83	141 8222	8536	8850	9164	9478	9792	0106	0419	0733	1047
84	1361	1675	1988	2302	2616	2930	3243	3557	3871	4184
1385	4498	4811	5125	5438	5752	6065	6379	6692	7006	7319
86	142 7632	7946	8259	8572	8885	9199	9512	9825	0138	0451
87	0765	1078	1391	1704	2017	2330	2643	2956	3269	3582
88	3895	4208	4520	4833	5146	5459	5772	6084	6397	6710
89	7022	7335	7648	7960	8273	8586	8898	9211	9523	9836
1390	143 0148	0460	0773	1085	1398	1710	2022	2335	2647	2959
91	3271	3584	3896	4208	4520	4832	5144	5456	5768	6080
92	6392	6704	7016	7328	7640	7952	8264	8576	8888	9199
93	144 9511	9823	0135	0446	0758	1070	1381	1693	2005	2316
94	2628	2939	3251	3562	3874	4185	4497	4808	5119	5431
1395	5742	6053	6365	6676	6987	7298	7610	7921	8232	8543
96	145 8854	9165	9476	9787	0098	0409	0720	1031	1342	1653
97	1964	2275	2586	2897	3207	3518	3829	4140	4450	4761
98	5072	5382	5693	6004	6314	6625	6935	7246	7556	7867
99	8177	8488	8798	9108	9419	9729				
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01	4381	4691	5001	5311	5621	5931	6241	6551	6861	7170
02	147 7480	7790	8100	8409	8719	9029	9338	9648	9958	0267
03	0577	0886	1196	1505	1815	2124	2434	2743	3052	3362
04	3671	3980	4290	4599	4908	5217	5527	5836	6145	6454
1405	6763	7072	7381	7690	7999	8308	8617	8926	9235	9544
06	148 9853	0162	0471	0780	1089	1397	1706	2015	2324	2632
07	2941	3250	3558	3867	4175	4484	4793	5101	5410	5718
08	6027	6336	6643	6952	7260	7569	7877	8185	8493	8802
09	149 9110	9418	9726	0035	0343	0651	0959	1267	1575	1883
1410	2191	2499	2807	3115	3423	3731	4039	4347	4655	4962
11	5270	5578	5886	6193	6501	6809	7116	7424	7732	8039
12	150 8347	8655	8962	9270	9577	9885				
13	1422	1729	2036	2344	2651	2958	3265	3573	3880	4187
14	4494	4801	5108	5415	5722	6030	6337	6644	6951	7257
1415	151 7564	7871	8178	8485	8792	9099	9406	9712	0019	0326
16	0633	0939	1246	1553	1859	2166	2472	2779	3085	3392
17	3699	4005	4311	4618	4924	5231	5537	5843	6150	6456
18	6762	7069	7375	7681	7987	8293	8600	8906	9212	9518
19	152 9824	0130	0436	0742	1048	1354	1660	1966	2272	2578
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21	5941	6246	6552	6858	7163	7469	7774	8080	8385	8691
22	153 8996	9301	9607	9912	0217	0523	0828	1133	1439	1744
23	2049	2354	2659	2964	3270	3575	3880	4185	4490	4795
24	5100	5405	5710	6015	6320	6625	6929	7234	7539	7844
1425	154 8149	8453	8758	9063	9368	9672	9977	0281	0586	0891
26	1195	1500	1804	2109	2413	2718	3022	3327	3631	3936
27	4240	4544	4848	5153	5457	5761	6065	6370	6674	6978
28	155 7282	7586	7890	8194	8498	8802	9106	9410	9714	0018
29	0322	0626	0930	1234	1538	1842	2145	2449	2753	3057
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31	6396	6700	7003	7307	7610	7914	8217	8520	8824	9127
32	156 9430	9733	0037	0340	0643	0946	1249	1553	1856	2159
33	2462	2765	3068	3371	3674	3977	4280	4583	4886	5189
34	5492	5794	6097	6400	6703	7006	7308	7611	7914	8216
1435	157 8519	8822	9124	9427	9729	0032	0334	0637	0939	1242
36	1544	1847	2149	2452	2754	3056	3359	3661	3963	4265
37	4568	4870	5172	5474	5776	6079	6381	6683	6985	7287
38	158 7589	7891	8193	8495	8797	9099	9401	9702	0004	0306
39	0608	0910	1212	1513	1815	2117	2418	2720	3022	3323
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41	6640	6941	7243	7544	7845	8146	8448	8749	9050	9351
42	159 9653	9954	0255	0556	0857	1158	1459	1760	2061	2362
43	2663	2964	3265	3566	3867	4168	4469	4770	5070	5371
44	5672	5973	6273	6574	6875	7175	7476	7777	8077	8378
1445	160 8678	8979	9280	9580	9881	0181	0481	0782	1082	1383
46	1683	1983	2284	2584	2884	3184	3485	3785	4085	4385
47	4685	4985	5286	5586	5886	6186	6486	6786	7086	7386
48	161 7686	7986	8285	8585	8885	9185	9485	9785	0084	0384
49	0684	0984	1283	1583	1883	2182	2482	2781	3081	3380
1450	3680	3980	4279	4578	4878	5177	5477	5776	6075	6375
51	6674	6973	7273	7572	7871	8170	8470	8769	9068	9367
52	162 9666	9965	0264	0563	0862	1161	1460	1759	2058	2357
53	2656	2955	3254	3553	3852	4150	4449	4748	5047	5345
54	5644	5943	6241	6540	6839	7137	7436	7734	8033	8331
1455	163 8630	8928	9227	9525	9824	0122	0420	0719	1017	1315
56	1614	1912	2210	2508	2807	3105	3403	3701	3999	4297
57	4596	4894	5192	5490	5788	6086	6384	6682	6979	7277
58	164 7575	7873	8171	8469	8767	9064	9362	9660	9958	0255
59	0553	0851	1148	1446	1743	2041	2339	2636	2934	3231
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61	6502	6799	7097	7394	7691	7988	8285	8582	8880	9177
62	165 9474	9771	0068	0365	0662	0959	1256	1553	1850	2146
63	2443	2740	3037	3334	3631	3927	4224	4521	4817	5114
64	5411	5707	6004	6301	6597	6894	7190	7487	7783	8080
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66	1340	1636	1932	2228	2525	2821	3117	3413	3709	4005
67	4301	4597	4893	5189	5485	5781	6077	6373	6669	6965
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69	167 0218	0514	0809	1105	1400	1696	1991	2287	2582	2878
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71	6127	6422	6717	7012	7308	7603	7898	8193	8488	8783
72	168 9078	9373	9668	9963	0258	0553	0848	1143	1438	1733
73	2027	2322	2617	2912	3207	3501	3796	4091	4386	4680
74	4975	5269	5564	5859	6153	6448	6742	7037	7331	7626
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77	3805	4099	4393	4687	4981	5275	5569	5863	6157	6450
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82	171 8482	8775	9068	9361	9654	9947	0240	0533	0826	1119
83	1412	1704	1997	2290	2583	2876	3168	3461	3754	4046
84	4339	4632	4924	5217	5509	5802	6095	6387	6680	6972
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86	172 0188	0480	0773	1065	1357	1649	1941	2233	2526	2818
87	3110	3402	3694	3986	4278	4570	4862	5154	5446	5737
88	6029	6321	6613	6905	7197	7488	7780	8072	8364	8655
89	173 8947	9239	9530	9822	0113	0405	0697	0988	1280	1571
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91	4776	5068	5359	5650	5941	6233	6524	6815	7106	7397
92	174 7688	7979	8270	8561	8852	9143	9434	9725	0016	0307
93	0598	0889	1180	1471	1761	2052	2343	2634	2925	3215
94	3506	3797	4087	4378	4669	4959	5250	5540	5831	6121
1495	6412	6702	6993	7283	7574	7864	8155	8445	8735	9026
96	175 9316	9606	9897	0187	0477	0767	1057	1348	1638	1928
97	2218	2508	2798	3088	3378	3668	3958	4248	4538	4828
98	5118	5408	5698	5988	6278	6567	6857	7147	7437	7727
99	176 8016	8306	8596	8885	9175	9465	9754	0044	0333	0623
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03	177 9590	9879	0168	0457	0745	1034	1323	1612	1901	2190
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1505	5365	5654	5942	6231	6519	6808	7096	7385	7673	7961
06	178 8250	8538	8826	9115	9403	9691	9980	0268	0556	0844
07	1133	1421	1709	1997	2285	2573	2861	3149	3437	3725
08	4013	4301	4589	4877	5165	5453	5741	6029	6317	6605
09	6892	7180	7468	7756	8043	8331	8619	8907	9194	9482
1510	179 9769	0057	0345	0632	0920	1207	1495	1782	2070	2357
11	2645	2932	3219	3507	3794	4082	4369	4656	4943	5231
12	5518	5805	6092	6380	6667	6954	7241	7528	7815	8102
13	180 8389	8676	8963	9250	9537	9824	0111	0398	0685	0972
14	1259	1546	1832	2119	2406	2693	2980	3266	3553	3840
1515	4126	4413	4700	4986	5273	5559	5846	6133	6419	6706
16	6992	7278	7565	7851	8138	8424	8711	8997	9283	9570
17	181 9856	0142	0428	0715	1001	1287	1573	1859	2145	2432
18	2718	3004	3290	3576	3862	4148	4434	4720	5006	5292
19	5578	5864	6150	6435	6721	7007	7293	7579	7864	8150
1520	182 8436	8722	9007	9293	9579	9864	0150	0435	0721	1007
21	1292	1578	1863	2149	2434	2720	3005	3290	3576	3861
22	4147	4432	4717	5002	5288	5573	5858	6143	6429	6714
23	6999	7284	7569	7854	8140	8425	8710	8995	9280	9565
24	183 9850	0135	0420	0704	0989	1274	1559	1844	2129	2414
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26	5545	5830	6114	6399	6684	6968	7253	7537	7822	8106
27	184 8390	8675	8959	9244	9528	9812	0096	0381	0665	0949
28	1234	1518	1802	2086	2370	2654	2939	3223	3507	3791
29	4075	4359	4643	4927	5211	5495	5779	6063	6347	6630
1530	6914	7198	7482	7766	8050	8333	8617	8901	9185	9468
31	185 9752	0036	0319	0603	0886	1170	1454	1737	2021	2304
32	2588	2871	3155	3438	3721	4005	4288	4572	4855	5138
33	5422	5705	5988	6271	6555	6838	7121	7404	7687	7970
34	186 8254	8537	8820	9103	9386	9669	9952	0235	0518	0801
1535	1084	1367	1650	1932	2215	2498	2781	3064	3347	3629
36	3912	4195	4478	4750	5043	5326	5608	5891	6174	6456
37	6739	7021	7304	7586	7869	8151	8434	8716	8999	9281
38	187 9563	9846	0128	0410	0693	0975	1257	1540	1822	2104
39	2386	2668	2951	3233	3515	3797	4079	4361	4643	4925
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4	118	117	117	116	116	116	115	115	114	114	114	113
5	147	147	146	146	145	145	144	144	143	143	142	142
6	176	176	175	175	174	173	173	172	172	171	170	170
7	206	205	204	204	203	202	202	201	200	200	199	198
8	235	234	234	233	232	231	230	230	229	228	227	226
9	265	264	263	262	261	260	259	258	257	257	256	255

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41	188 8026	8308	8590	8872	9154	·435	9717	9999	0280	0562
42	0844	1125	1407	1689	1970	·252	2533	2815	3096	3378
43	3659	3941	4222	4504	4785	·066	5348	5629	5910	6192
44	6473	6754	7035	7317	7598	·879	8160	8441	8723	9004
1545	189 9285	9566	9847	0128	0409	·690	0971	1252	1533	1814
46	2095	2376	2657	2938	3218	·499	3780	4061	4342	4622
47	4903	5184	5465	5745	6026	·307	6587	6868	7148	7429
48	190 7710	7990	8271	8551	8832	·112	9393	9673	9953	0234
49	0514	0795	1075	1355	1636	·916	2196	2476	2757	3037
1550	3317	3597	3877	4157	4438	·718	4998	5278	5558	5838
51	6118	6398	6678	6958	7238	·518	7798	8078	8357	8637
52	191 8917	9197	9477	9757	0036	·316	0596	0876	1156	1435
53	1715	1994	2274	2553	2833	·113	3392	3672	3951	4231
54	4510	4790	5069	5348	5628	·907	6187	6466	6745	7025
1555	192 7304	7583	7862	8142	8421	·700	8979	9259	9538	9817
56	0096	0375	0654	0933	1212	·491	1770	2049	2328	2607
57	2886	3165	3444	3723	4002	·281	4859	5138	5117	5396
58	5675	5953	6232	6511	6789	·068	7347	7625	7904	8183
59	8461	8740	9018	9297	9575	·854				
	193						0132	0411	0689	0968
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61	4029	4307	4585	4864	5142	·420	5698	5976	6254	6532
62	6810	7088	7366	7644	7922	·200	8478	8756	9034	9312
63	9590	9868								
	194		0145	0423	0701	·979	1257	1534	1812	2090
64	2367	2645	2923	3200	3478	·756	4033	4311	4588	4866
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66	7918	8195	8472	8749	9027	·304	9581	9858		
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67	0690	0967	1244	1521	1798	·075	2353	2630	2907	3184
68	3461	3738	4014	4291	4568	·845	5122	5399	5676	5953
69	6229	6506	6783	7060	7336	·613	7890	8167	8443	8720
1570	196 8997	9273	9550	9826	0103	·379	0656	0932	1209	1485
71	1762	2038	2315	2591	2867	·144	3420	3697	3973	4249
72	4526	4802	5078	5354	5630	·907	6183	6459	6735	7011
73	197 7287	7563	7839	8115	8391	·667	8943	9219	9495	9771
74	0047	0323	0599	0875	1151	·427	1702	1978	2254	2530
1575	2806	3081	3357	3633	3908	·184	4460	4735	5011	5287
76	5562	5838	6113	6389	6664	·940	7215	7491	7766	8042
77	8317	8592	8868	9143	9418	·694	9969			
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78	1070	1345	1620	1896	2171	·446	2721	2996	3271	3546
79	3821	4096	4371	4646	4921	·196	5471	5746	6021	6296
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81	199 9319	9593	9868							
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82	2065	2339	2614	2888	3163	·437	3712	3986	4260	4535
83	4809	5083	5358	5632	5906	·181	6455	6729	7003	7278
84	200 7552	7826	8100	8374	8648	·922	9197	9471	9745	0019
1585	0293	0567	0841	1115	1389	·662	1936	2210	2484	2758
86	3032	3306	3579	3853	4127	·401	4674	4948	5222	5496
87	5769	6043	6317	6590	6864	·137	7411	7684	7958	8231
88	201 8505	8778	9052	9325	9599	·872				
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89	1239	1512	1786	2059	2332	·605	2879	3152	3425	3698
1590	3971	4244	4517	4791	5064	·337	5610	5883	6156	6429
91	6702	6975	7248	7521	7794	·066	8339	8612	8885	9158
92	202 9431	9703	9976							
				0249	0522	·794	1067	1340	1612	1885
93	2158	2430	2703	2976	3248	·521	3793	4066	4338	4611
94	4883	5156	5428	5700	5973	·245	6518	6790	7062	7335
1595	203 7607	7879	8151	8424	8696	·968	9240	9512	9785	
96	0329	0601	0873	1145	1417	·689	1961	2233	2505	2777
97	3049	3321	3593	3865	4137	·409	4681	4952	5224	5496
98	5768	6040	6311	6583	6855	·126	7398	7670	7941	8213
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02	6626	6896	7167	7438	7709	7980	8251	8522	8793	9064
03	205 9336	9606	9877	0148	0419	0690	0961	1231	1502	1773
04	2044	2314	2585	2856	3127	3397	3668	3939	4209	4480
1605	4750	5021	5292	5562	5833	6103	6374	6644	6915	7185
06	7456	7726	7996	8267	8537	8807	9078	9348	9618	9889
07	206 0159	0429	0699	0969	1240	1510	1780	2050	2320	2590
08	2860	3131	3401	3671	3941	4211	4481	4751	5021	5291
09	5561	5830	6100	6370	6640	6910	7180	7449	7719	7989
1610	8259	8529	8798	9068	9338	9607	9877	0147	0416	0686
11	207 0956	1225	1495	1764	2034	2303	2573	2842	3112	3381
12	3650	3920	4189	4459	4728	4997	5267	5536	5805	6074
13	6344	6613	6882	7151	7421	7690	7959	8228	8497	8766
14	208 9035	9304	9573	9842	0111	0380	0649	0918	1187	1456
1615	1725	1994	2263	2532	2801	3070	3338	3607	3876	4145
16	4414	4682	4951	5220	5488	5757	6026	6294	6563	6832
17	7100	7369	7637	7906	8174	8443	8711	8980	9248	9517
18	209 9785	0054	0322	0590	0859	1127	1395	1664	1932	2200
19	2468	2737	3005	3273	3541	3810	4078	4346	4614	4882
1620	5150	5418	5686	5954	6222	6490	6758	7026	7294	7562
21	210 7830	8098	8366	8634	8902	9170	9437	9705	9973	0241
22	0508	0776	1044	1312	1579	1847	2115	2382	2650	2918
23	3185	3453	3720	3988	4255	4523	4790	5058	5325	5593
24	5860	6128	6395	6662	6930	7197	7464	7732	7999	8266
1625	211 8534	8801	9068	9335	9603	9870	0137	0404	0671	0938
26	1205	1472	1740	2007	2274	2541	2808	3075	3342	3609
27	3876	4142	4409	4676	4943	5210	5477	5744	6010	6277
28	6544	6811	7078	7344	7611	7878	8144	8411	8678	8944
29	212 9211	9477	9744	0011	0277	0544	0810	1077	1343	1610
1630	1876	2142	2409	2675	2942	3208	3474	3741	4007	4273
31	4540	4806	5072	5338	5605	5871	6137	6403	6669	6935
32	7202	7468	7734	8000	8266	8532	8798	9064	9330	9596
33	213 9862	0128	0394	0660	0926	1191	1457	1723	1989	2255
34	2521	2786	3052	3318	3584	3849	4115	4381	4646	4912
1635	5178	5443	5709	5974	6240	6505	6771	7037	7302	7568
36	214 7833	8098	8364	8629	8895	9160	9425	9691	9956	0221
37	0487	0752	1017	1283	1548	1813	2078	2343	2609	2874
38	3139	3404	3669	3934	4199	4464	4730	4995	5260	5525
39	5790	6055	6319	6584	6849	7114	7379	7644	7909	8174
1640	215 8438	8703	8968	9233	9498	9762	0027	0292	0556	0821
41	1086	1350	1615	1880	2144	2409	2673	2938	3203	3467
42	3732	3996	4260	4525	4789	5054	5318	5583	5847	6111
43	6376	6640	6904	7169	7433	7697	7961	8226	8490	8754
44	216 9018	9282	9546	9811	0075	0339	0603	0867	1131	1395
1645	1659	1923	2187	2451	2715	2979	3243	3507	3771	4034
46	4298	4562	4826	5090	5354	5617	5881	6145	6409	6672
47	6936	7200	7463	7727	7991	8254	8518	8781	9045	9309
48	217 9572	9836	0099	0363	0626	0890	1153	1416	1680	1943
49	2207	2470	2733	2997	3260	3523	3786	4050	4313	4576
1650	4839	5103	5366	5629	5892	6155	6418	6682	6945	7208
51	218 7471	7734	7997	8260	8523	8786	9049	9312	9575	9838
52	0100	0363	0626	0889	1152	1415	1677	1940	2203	2466
53	2729	2991	3254	3517	3779	4042	4305	4567	4830	5092
54	5355	5618	5880	6143	6405	6668	6930	7193	7455	7718
1655	219 7980	8242	8505	8767	9030	9292	9554	9816	0079	0341
56	0603	0866	1128	1390	1652	1914	2177	2439	2701	2963
57	3225	3487	3749	4011	4273	4536	4797	5059	5321	5583
58	5845	6107	6369	6631	6893	7155	7417	7678	7940	8202
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8	215	5	134
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		8	214
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8	214	5	133
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		8	213
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3	79	**262**	
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5	132	2	52
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7	184	4	105
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9	237	6	157
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		8	210
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62		6310	6571	6833	7094	7356	7617	7878	8139	8400	8661
63	221	8922	9184	9445	9706	9967	0228	0489	0750	1011	1272
64		1533	1794	2055	2316	2577	2838	3099	3360	3621	3882
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66		6750	7011	7271	7532	7793	8053	8314	8574	8836	9095
67	222	9356	9617	9877	0138	0398	0658	0919	1179	1440	1700
68		1960	2221	2481	2741	3002	3262	3522	3783	4043	4303
69		4563	4824	5084	5344	5604	5864	6124	6384	6645	6905
1670		7165	7425	7685	7945	8206	8465	8725	8985	9245	9505
71	223	9764	0024	0284	0544	0804	1064	1324	1583	1843	2103
72		2363	2622	2882	3142	3402	3661	3921	4181	4440	4700
73		4959	5219	5479	5738	5998	6257	6517	6776	7036	7295
74		7555	7814	8073	8333	8592	8852	9111	9370	9630	9889
1675	224	0148	0407	0667	0926	1185	1444	1704	1963	2222	2481
76		2740	2999	3258	3517	3777	4036	4295	4554	4813	5072	5331
77		5331	5590	5849	6107	6366	6625	6884	7143	7402	7661
78	225	7920	8178	8437	8696	8955	9213	9472	9731	9990	0248
79		0507	0766	1024	1283	1541	1800	2059	2317	2576	2834
1680		3093	3351	3610	3868	4127	4385	4644	4902	5160	5419
81		5677	5935	6194	6452	6710	6969	7227	7485	7743	8002
82	226	8260	8518	8776	9034	9293	9551	9809	0067	0325	0583
83		0841	1099	1357	1615	1873	2131	2389	2647	2906	3163
84		3421	3679	3937	4194	4452	4710	4968	5226	5484	5741
1685		5999	6257	6515	6772	7030	7288	7545	7803	8060	8318
86	227	8576	8833	9091	9348	9606	9863	0121	0378	0636	0893
87		1151	1408	1666	1923	2180	2438	2695	2953	3210	3467
88		3724	3982	4239	4496	4753	5011	5268	5525	5782	6039
89		6296	6554	6811	7068	7325	7582	7839	8096	8353	8610
1690	228	8867	9124	9381	9638	9895	0152	0409	0666	0922	1179
91		1436	1693	1950	2206	2463	2720	2977	3233	3490	3747
92		4004	4260	4517	4774	5030	5287	5543	5800	6057	6313
93		6570	6826	7083	7339	7596	7852	8108	8365	8621	8878
94	229	9134	9390	9647	9903	0159	0416	0672	0928	1185	1441
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96		4258	4515	4771	5027	5283	5539	5795	6051	6307	6562
97		6818	7074	7330	7586	7842	8098	8354	8609	8865	9121
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01		7043	7298	7554	7809	8064	8320	8575	8830	9085	9340
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03		2146	2401	2656	2911	3166	3421	3676	3931	4186	4441
04		4696	4951	5206	5460	5715	5970	6225	6480	6734	6989
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07		2335	2590	2844	3098	3353	3607	3861	4116	4370	4624
08		4879	5133	5387	5641	5896	6150	6404	6658	6912	7166
09		7421	7675	7929	8183	8437	8691	8945	9199	9453	9707
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12		5038	5291	5545	5799	6052	6306	6559	6813	7067	7320
13		7574	7827	8081	8334	8588	8841	9095	9348	9601	9855
14	234	0108	0362	0615	0868	1122	1375	1628	1881	2135	2388
1715		2641	2894	3148	3401	3654	3907	4160	4414	4667	4920
16		5173	5426	5679	5932	6185	6438	6691	6944	7197	7450
17		7703	7956	8209	8462	8715	8967	9220	9473	9726	9979
18	235	0232	0484	0737	0990	1243	1495	1748	2001	2253	2506
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23		2853	3105	3357	3609	3861	4113	4365	4617	4869	5121
24		5373	5625	5876	6128	6380	6632	6884	7136	7387	7639
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27		2923	3175	3426	3678	3929	4181	4432	4683	4935	5186
28		5437	5689	5940	6191	6443	6694	6945	7196	7448	7699
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32		5479	5730	5980	6231	6482	6732	6983	7234	7484	7735
33	239	7986	8236	8487	8737	8988	9238	9489	9739	9990	0240
34		0491	0741	0992	1242	1493	1743	1993	2244	2494	2744
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36		5497	5747	5998	6248	6498	6748	6998	7248	7498	7748
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41	241	7988	8237	8487	8736	8985	9235	9484	9734	9983	0232
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47		2929	3178	3426	3675	3923	4172	4420	4669	4917	5166
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49	243	7898	8146	8395	8643	8891	9139	9388	9636	9884	0132
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53	244	7819	8067	8315	8562	8810	9058	9305	9553	9801	0048
54		0296	0543	0791	1039	1286	1534	1781	2029	2276	2524
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57		7718	7965	8212	8459	8706	8953	9200	9448	9695	9942
58	245	0189	0436	0683	0930	1177	1424	1671	1918	2165	2411
59		2658	2905	3152	3399	3646	3893	4140	4386	4633	4880
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63		2523	2769	3016	3262	3508	3755	4001	4247	4493	4740
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67		2365	2611	2857	3103	3349	3594	3840	4086	4331	4577
68		4823	5068	5314	5559	5805	6051	6296	6542	6787	7033
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71		2186	2431	2676	2921	3166	3412	3657	3902	4147	4392
72		4637	4882	5127	5372	5617	5862	6107	6352	6597	6842
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92	3380	3622	3865	4107	4349	4592	4834	5076	5318	5561
93	5803	6045	6287	6529	6772	7014	7256	7498	7740	7982
94	254 8224	8466	8709	8951	9193	9435	9677	9919	0161	0403
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03	256 9957	0198	0439	0680	0921	1161	1402	1643	1884	2125
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07	257 9582	9822	0062	0302	0543	0783	1023	1264	1504	1744
08	1984	2224	2465	2705	2945	3185	3425	3665	3905	4146
09	4386	4626	4866	5106	5346	5586	5826	6066	6306	6546
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11	258 9185	9424	9664	9904	0144	0383	0623	0863	1103	1342
12	1582	1822	2061	2301	2541	2780	3020	3259	3499	3738
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36	264 8727	8963	9200	9436	9673	9909	0146	0382	0619	0855
37	1092	1328	1564	1801	2037	2273	2510	2746	2982	3219
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66	271	9116	9349	9582	9815	0047	0280	0513	0745	0978	1211
67		1443	1676	1908	2141	2374	2606	2839	3071	3304	3536
68		3769	4001	4234	4466	4699	4931	5163	5396	5628	5861
69		6093	6325	6558	6790	7022	7255	7487	7719	7952	8184
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02		2105	2333	2562	2790	3018	3247	3475	3703	3931	4160
03		4388	4616	4844	5072	5301	5529	5757	5985	6213	6441
04		6669	6898	7126	7354	7582	7810	8038	8266	8494	8722
1905	280	8950	9178	9406	9634	9862					
							0090	0317	0545	0773	1001
06		1229	1457	1685	1912	2140	2368	2596	2824	3051	3279
07		3507	3736	3962	4190	4418	4645	4873	5101	5328	5556
08		5784	6011	6239	6467	6694	6922	7149	7377	7604	7832
09	281	8059	8287	8514	8742	8969	9197	9424	9651	9879	0106
1910		0334	0561	0788	1016	1243	1470	1698	1925	2152	2380
11		2607	2834	3061	3289	3516	3743	3970	4197	4425	4652
12		4879	5106	5333	5560	5787	6014	6242	6469	6696	6923
13		7150	7377	7604	7831	8058	8285	8512	8739	8966	9192
14	282	9419	9646	9873	0100	0327	0554	0781	1007	1234	1461
1915		1688	1915	2141	2368	2595	2822	3048	3275	3502	3728
16		3955	4182	4408	4635	4862	5088	5315	5541	5768	5995
17		6221	6448	6674	6901	7127	7354	7580	7807	8033	8260
18	283	8486	8712	8939	9165	9392	9618	9844			
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19		0750	0976	1202	1429	1655	1881	2107	2334	2560	2786
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21		5274	5500	5726	5952	6178	6404	6630	6856	7082	7308
22		7534	7760	7986	8212	8438	8663	8889	9115	9341	9567
23	284	9793									
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26		6563	6788	7014	7239	7465	7690	7916	8141	8366	8592
27	285	8817	9043	9268	9493	9719	9944	0169	0394	0620	0845
28		1070	1296	1521	1746	1971	2196	2422	2647	2872	3097
29		3322	3547	3773	3998	4223	4448	4673	4898	5123	5348
1930		5573	5798	6023	6248	6473	6698	6923	7148	7373	7598
31		7823	8048	8273	8497	8722	8947	9172	9397	9622	9846
32	286	0071	0296	0521	0746	0970	1195	1420	1644	1869	2094
33		2319	2543	2768	2992	3217	3442	3666	3891	4116	4340
34		4565	4789	5014	5238	5463	5687	5912	6136	6361	6585
1935		6810	7034	7259	7483	7707	7932	8156	8381	8605	8829
36	287	9054	9278	9502	9726	9951					
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37		1296	1520	1745	1969	2193	2417	2641	2865	3090	3314
38		3538	3762	3986	4210	4434	4658	4882	5106	5330	5554
39		5778	6002	6226	6450	6674	6898	7122	7346	7570	7793
1940	288	8017	8241	8465	8689	8913	9136	9360	9584	9808	0032
41		0255	0479	0703	0927	1150	1374	1598	1821	2045	2269
42		2492	2716	2939	3163	3387	3610	3834	4057	4281	4504
43		4728	4952	5175	5399	5622	5845	6069	6292	6516	6739
44		6963	7186	7409	7633	7856	8079	8303	8526	8749	8973
1945	289	9196	9419	9643	9866	0089	0312	0536	0759	0982	1205
46		1428	1652	1875	2098	2321	2644	2767	2990	3213	3436
47		3660	3883	4106	4329	4552	4775	4998	5221	5444	5667
48		5890	6112	6335	6558	6781	7004	7227	7450	7673	7896
49	290	8118	8341	8564	8787	9010	9232	9455	9678	9901	0123
1950		0346	0569	0792	1014	1237	1460	1682	1905	2127	2350
51		2573	2795	3018	3240	3463	3686	3908	4131	4353	4576
52		4798	5021	5243	5466	5688	5910	6133	6355	6578	6800
53		7022	7245	7467	7690	7912	8134	8356	8579	8801	9023
54	291	9246	9468	9690	9912	0135	0357	0579	0801	1023	1245
1955		1468	1690	1912	2134	2356	2578	2800	3022	3244	3466
56		3689	3911	4133	4355	4577	4799	5020	5242	5464	5686
57		5908	6130	6352	6574	6796	7018	7240	7461	7683	7905
58	292	8127	8349	8570	8792	9014	9236	9458	9679	9901	0123
59		0344	0566	0788	1009	1231	1453	1674	1896	2118	2339
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61	4776	4997	5219	5440	5662	5883	6105	6326	6547	6769
62	6990	7211	7433	7654	7875	8097	8318	8539	8760	8982
63	293 9203	9424	9645	9867	0088	0309	0530	0751	0973	1194
64	1415	1636	1857	2078	2299	2520	2741	2962	3183	3405
1965	3626	3847	4068	4289	4510	4730	4951	5172	5393	5614
66	5835	6056	6277	6498	6719	6940	7160	7381	7602	7823
67	294 8044	8264	8485	8706	8927	9147	9368	9589	9810	0030
68	0251	0472	0692	0913	1134	1354	1575	1795	2016	2237
69	2457	2678	2898	3119	3339	3560	3780	4001	4221	4442
1970	4662	4883	5103	5324	5544	5764	5985	6205	6426	6646
71	6866	7087	7307	7527	7748	7968	8188	8408	8629	8849
72	295 9069	9289	9510	9730	9950	0170	0390	0610	0831	1051
73	1271	1491	1711	1931	2151	2371	2591	2811	3031	3251
74	3471	3691	3911	4131	4351	4571	4791	5011	5231	5451
1975	5671	5891	6111	6331	6550	6770	6990	7210	7430	7650
76	7869	8089	8309	8529	8748	8968	9188	9408	9627	9847
77	296 0067	0286	0506	0726	0945	1165	1385	1604	1824	2043
78	2263	2482	2702	2922	3141	3361	3580	3800	4019	4238
79	4458	4677	4897	5116	5336	5555	5774	5994	6213	6433
1980	6652	6871	7091	7310	7529	7748	7968	8187	8406	8626
81	8845	9064	9283	9502	9722	9941	0160	0379	0598	0817
82	297 1037	1256	1475	1694	1913	2132	2351	2570	2789	3008
83	3227	3446	3665	3884	4103	4322	4541	4760	4979	5198
84	5417	5636	5854	6073	6292	6511	6730	6949	7168	7386
1985	7605	7824	8043	8261	8480	8699	8918	9136	9355	9574
86	298 9792	0011	0230	0448	0667	0886	1104	1323	1542	1760
87	1979	2197	2416	2634	2853	3071	3290	3508	3727	3945
88	4164	4382	4601	4819	5038	5256	5474	5693	5911	6129
89	6348	6566	6785	7003	7221	7439	7658	7876	8094	8313
1990	8531	8749	8967	9185	9404	9622	9840	0058	0276	0494
91	299 0713	0931	1149	1367	1585	1803	2021	2239	2457	2675
92	2893	3111	3329	3547	3765	3983	4201	4419	4637	4855
93	5073	5291	5509	5727	5945	6162	6380	6598	6816	7034
94	7252	7469	7687	7905	8123	8340	8558	8776	8994	9211
1995	9429	9647	9864	0082	0300	0517	0735	0953	1170	1388
96	300 1605	1823	2041	2258	2476	2693	2911	3128	3346	3563
97	3781	3998	4216	4433	4650	4868	5085	5303	5520	5737
98	5955	6172	6390	6607	6824	7042	7259	7476	7693	7911
99	8128	8345	8562	8780	8997	9214	9431	9648	9866	0083
2000	301 0300	0517	0734	0951	1168	1386	1603	1820	2037	2254
01	2471	2688	2905	3122	3339	3556	3773	3990	4207	4424
02	4641	4858	5075	5291	5508	5725	5942	6159	6376	6593
03	6809	7026	7243	7460	7677	7893	8110	8327	8544	8760
04	8977	9194	9411	9627	9844	0061	0277	0494	0711	0927
2005	302 1144	1360	1577	1794	2010	2227	2443	2660	2876	3093
06	3309	3526	3742	3959	4175	4392	4608	4825	5041	5257
07	5474	5690	5906	6123	6339	6556	6772	6988	7204	7421
08	7637	7853	8070	8286	8502	8718	8935	9151	9367	9583
09	303 9799	0016	0232	0448	0664	0880	1096	1312	1528	1745
2010	1961	2177	2393	2609	2825	3041	3257	3473	3689	3905
11	4121	4337	4553	4769	4984	5200	5416	5632	5848	6064
12	6280	6496	6711	6927	7143	7359	7575	7790	8006	8222
13	8438	8653	8869	9085	9301	9516	9732	9948	0163	0379
14	304 0595	0810	1026	1242	1457	1673	1888	2104	2319	2535
2015	2751	2966	3182	3397	3613	3828	4043	4259	4474	4690
16	4905	5121	5336	5552	5767	5982	6198	6413	6628	6844
17	7059	7274	7490	7705	7920	8135	8351	8566	8781	8996
18	305 9212	9427	9642	9857	0072	0288	0503	0718	0933	1148
19	1363	1578	1793	2008	2224	2439	2654	2869	3084	3299
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23	306 9959	174	0388	0603	0817	1032	1247	1461	1676	1891
24	2105	2320	2534	2749	2963	3178	3392	3607	3821	4036
2025	4250	4465	4679	4894	5108	5322	5537	5751	5966	6180
26	6394	6609	6823	7037	7252	7466	7680	7895	8109	8323
27	8537	8752	8966	9180	9394	9609	9823	0037	0251	0465
28	0680	0894	1108	1322	1536	1750	1964	2178	2392	2606
29	2820	3035	3249	3463	3677	3891	4105	4319	4532	4746
2030	4960	5174	5388	5602	5816	6030	6244	6458	6672	6885
31	7099	7313	7527	7741	7954	8168	8382	8596	8810	9023
32	308 9237	9451	9664	9878	0092	0306	0519	0733	0947	1160
33	1374	1587	1801	2015	2228	2442	2655	2869	3082	3296
34	3509	3723	3936	4150	4363	4577	4790	5004	5217	5431
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36	7778	7991	8204	8418	8631	8844	9057	9271	9484	9697
37	309 9910	0123	0337	0550	0763	0976	1189	1402	1616	1829
38	2042	2255	2468	2681	2894	3107	3320	3533	3746	3959
39	4172	4385	4598	4811	5024	5237	5450	5663	5876	6089
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41	310 8430	8643	8856	9068	9281	9494	9707	9919	0132	0345
42	0557	0770	0983	1196	1408	1621	1833	2046	2258	2471
43	2684	2896	3109	3321	3534	3746	3959	4171	4384	4596
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46	311 9056	9269	9481	9693	9905	0117	0330	0542	0754	0966
47	1178	1391	1603	1815	2027	2239	2451	2663	2875	3087
48	3300	3512	3724	3936	4148	4360	4572	4784	4996	5208
49	5420	5632	5843	6055	6267	6479	6691	6903	7115	7327
2050	7539	7750	7962	8174	8386	8598	8810	9021	9233	9445
51	312 9657	9868	0080	0292	0504	0715	0927	1139	1350	1562
52	1774	1985	2197	2408	2620	2832	3043	3255	3466	3678
53	3889	4101	4313	4524	4736	4947	5159	5370	5581	5793
54	6004	6216	6427	6639	6850	7061	7273	7484	7696	7907
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56	0231	0442	0654	0865	1076	1287	1498	1709	1921	2132
57	2343	2554	2765	2976	3187	3398	3610	3821	4032	4243
58	4454	4665	4876	5087	5298	5509	5720	5931	6142	6353
59	6563	6774	6985	7196	7407	7618	7829	8040	8251	8461
2060	8672	8883	9094	9305	9515	9726	9937	0148	0358	0569
61	314 0780	0991	1201	1412	1623	1833	2044	2255	2465	2676
62	2887	3097	3308	3518	3729	3940	4150	4361	4571	4782
63	4992	5203	5413	5624	5834	6045	6255	6466	6676	6887
64	7097	7307	7518	7728	7939	8149	8359	8570	8780	8990
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66	1303	1513	1724	1934	2144	2354	2564	2774	2985	3195
67	3405	3615	3825	4035	4245	4455	4665	4875	5085	5295
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76	2273	2483	2692	2901	3110	3319	3528	3738	3947	4156
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81	2721	2929	3138	3347	3556	3764	3973	4181	4390	4599
82	4807	5016	5224	5433	5642	5850	6059	6267	6475	6684
83	6893	7101	7310	7518	7727	7935	8143	8352	8560	8769
84	319 8977	9186	9394	9602	9811	0019	0227	0436	0644	0852
2085	1061	1269	1477	1685	1894	2102	2310	2518	2727	2935
86	3143	3351	3559	3768	3976	4184	4392	4600	4808	5016
87	5224	5433	5641	5849	6057	6265	6473	6681	6889	7097
88	7305	7513	7721	7929	8137	8345	8553	8761	8969	9176
89	320 9384	9592	9800	0008	0216	0424	0632	0839	1047	1255
2090	1463	1671	1878	2086	2294	2502	2709	2917	3125	3333
91	3540	3748	3956	4163	4371	4579	4786	4994	5202	5409
92	5617	5824	6032	6240	6447	6655	6862	7070	7277	7485
93	7692	7900	8107	8315	8522	8730	8937	9145	9352	9559
94	9767	9974	0182	0389	0596	0804	1011	1218	1426	1633
2095	321 1840	2048	2255	2462	2669	2877	3084	3291	3498	3706
96	3913	4120	4327	4534	4742	4949	5156	5363	5570	5777
97	5984	6191	6398	6606	6813	7020	7227	7434	7641	7848
98	8055	8262	8469	8676	8883	9090	9297	9504	9711	9917
99	322 0124	0331	0538	0745	0952	1159	1366	1572	1779	1986
2100	2193	2400	2607	2813	3020	3227	3434	3640	3847	4054
01	4261	4467	4674	4881	5087	5294	5501	5707	5914	6121
02	6327	6534	6740	6947	7153	7360	7567	7773	7980	8186
03	323 8393	8599	8806	9012	9219	9425	9632	9838	0045	0251
04	0457	0664	0870	1077	1283	1489	1696	1902	2108	2315
2105	2521	2727	2934	3140	3346	3552	3759	3965	4171	4377
06	4584	4790	4996	5202	5408	5615	5821	6027	6233	6439
07	6645	6851	7058	7264	7470	7676	7882	8088	8294	8500
08	324 8706	8912	9118	9324	9530	9736	9942	0148	0354	0560
09	0766	0972	1178	1384	1589	1795	2001	2207	2413	2619
2110	2825	3030	3236	3442	3648	3854	4059	4265	4471	4677
11	4882	5088	5294	5499	5705	5911	6117	6322	6528	6734
12	6939	7145	7350	7556	7762	7967	8173	8378	8584	8789
13	325 8995	9201	9406	9612	9817	0023	0228	0433	0639	0844
14	1050	1255	1461	1666	1872	2077	2282	2488	2693	2898
2115	3104	3309	3514	3720	3925	4130	4336	4541	4746	4951
16	5157	5362	5567	5772	5978	6183	6388	6593	6798	7003
17	7209	7414	7619	7824	8029	8234	8439	8644	8849	9055
18	326 9260	9465	9670	9875	0080	0285	0490	0695	0900	1105
19	1310	1515	1719	1924	2129	2334	2539	2744	2949	3154
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21	5407	5611	5816	6021	6226	6430	6635	6840	7044	7249
22	7454	7658	7863	8068	8272	8477	8682	8886	9091	9295
23	327 9500	9705	9909	0114	0318	0523	0727	0932	1136	1341
24	1545	1750	1954	2159	2363	2567	2772	2976	3181	3385
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26	5633	5837	6041	6245	6450	6654	6858	7062	7267	7471
27	7675	7879	8083	8287	8492	8696	8900	9104	9308	9512
28	328 9716	9920	0124	0328	0533	0737	0941	1145	1349	1553
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2130	3796	4000	4204	4408	4612	4815	5019	5223	5427	5631
31	5834	6038	6242	6446	6650	6853	7057	7261	7465	7668
32	7872	8076	8279	8483	8687	8890	9094	9298	9501	9705
33	329 9909	0112	0316	0519	0723	0926	1130	1334	1537	1741
34	1944	2148	2351	2555	2758	2962	3165	3369	3572	3775
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36	6012	6216	6419	6622	6826	7029	7232	7436	7639	7842
37	8045	8248	8452	8655	8858	9061	9264	9468	9671	9874
38	330 0077	0280	0483	0686	0889	1093	1296	1499	1702	1905
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43		0222	0424	0627	0830	1032	1235	1437	1640	1843	2045
44		2248	2450	2653	2855	3058	3261	3463	3666	3868	4070
2145		4273	4475	4678	4880	5083	5285	5488	5690	5892	6095
46		6297	6500	6702	6904	7107	7309	7511	7714	7916	8118
47	332	8320	8523	8725	8927	9129	9332	9534	9736	9938	0141
48		0343	0545	0747	0949	1151	1354	1556	1758	1960	2162
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52	333	8423	8624	8826	9028	9230	9432	9633	9836	0037	0239
53		0440	0642	0844	1045	1247	1449	1650	1852	2054	2255
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59		2626	2728	2929	3130	3331	3532	3733	3934	4136	4336
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61		6548	6749	6950	7151	7351	7552	7753	7954	8155	8356
62	335	8557	8758	8959	9159	9360	9561	9762	9963	0164	0364
63		0565	0766	0967	1168	1368	1569	1770	1970	2171	2372
64		2573	2773	2974	3175	3375	3576	3777	3977	4178	4378
2165		4579	4780	4980	5181	5381	5582	5782	5983	6183	6384
66		6585	6785	6986	7186	7386	7587	7787	7988	8188	8389
67	336	8589	8790	8990	9190	9391	9591	9791	9992	0192	0392
68		0593	0793	0993	1194	1394	1594	1795	1995	2195	2395
69		2596	2796	2996	3196	3396	3597	3797	3997	4197	4397
2170		4597	4797	4998	5198	5398	5598	5798	5998	6198	6398
71		6598	6798	6998	7198	7398	7598	7798	7998	8198	8398
72	337	8598	8798	8998	9198	9398	9598	9798	9998	0198	0397
73		0597	0797	0997	1197	1397	1596	1796	1996	2196	2396
74		2595	2795	2995	3195	3394	3594	3794	3994	4193	4393
2175		4593	4792	4992	5192	5391	5591	5791	5990	6190	6389
76		6589	6788	6988	7188	7387	7587	7786	7986	8185	8385
77	338	8584	8784	8983	9183	9382	9582	9781	9981	0180	0379
78		0579	0778	0978	1177	1376	1576	1775	1974	2174	2373
79		2572	2772	2971	3170	3369	3569	3768	3967	4166	4366
2180		4565	4764	4963	5163	5362	5561	5760	5959	6158	6358
81		6557	6756	6955	7154	7353	7552	7751	7950	8149	8348
82	339	8547	8746	8946	9145	9344	9543	9742	9940	0139	0338
83		0537	0736	0935	1134	1333	1532	1731	1930	2129	2327
84		2526	2725	2924	3123	3322	3520	3719	3918	4117	4316
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86		6502	6700	6899	7098	7296	7495	7693	7892	8091	8289
87	340	8488	8686	8885	9084	9282	9481	9679	9878	0076	0275
88		0473	0672	0870	1069	1267	1466	1664	1862	2061	2259
89		2458	2656	2854	3053	3251	3449	3648	3846	4045	4243
2190		4441	4639	4838	5036	5234	5433	5631	5829	6027	6226
91		6424	6622	6820	7018	7217	7415	7613	7811	8009	8207
92	341	8406	8604	8802	9000	9198	9396	9594	9792	9990	0188
93		0386	0584	0782	0980	1178	1376	1574	1772	1970	2168
94		2366	2564	2762	2960	3158	3356	3554	3752	3950	4147
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96		6323	6521	6719	6917	7114	7312	7510	7708	7905	8103
97	342	8301	8498	8696	8894	9091	9289	9486	9684	9882	0079
98		0277	0474	0672	0870	1067	1265	1462	1660	1857	2055
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03	343 0145	0342	0539	0736	0933	1131	1328	1525	1722	1919	3 59
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06	6055	6252	6449	6646	6842	7039	7236	7433	7630	7827	6 118
07	8023	8220	8417	8614	8810	9007	9204	9401	9597	9794	7 138
08	344 9991	0187	0384	0581	0777	0974	1171	1367	1564	1761	8 158
09	1957	2154	2350	2547	2743	2940	3137	3333	3530	3726	9 177
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12	7851	8048	8244	8440	8636	8833	9029	9225	9422	9618	
13	345 9814	0010	0207	0403	0599	0795	0991	1188	1384	1580	
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19	1573	1769	1964	2160	2356	2551	2747	2943	3138	3334	5 98
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22	7441	7636	7831	8027	8222	8418	8613	8808	9004	9199	8 157
23	347 9395	9590	9785	9981	0176	0371	0567	0762	0957	1153	9 176
24	1348	1543	1738	1934	2129	2324	2519	2715	2910	3105	
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26	5252	5447	5642	5837	6032	6227	6422	6617	6812	7007	
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31	4996	5190	5385	5580	5774	5969	6164	6358	6553	6747	4 78
32	6942	7136	7331	7526	7720	7915	8109	8304	8498	8693	5 98
33	349 8887	9082	9276	9471	9665	9860	0054	0248	0443	0637	6 117
34	0832	1026	1220	1415	1609	1804	1998	2192	2387	2581	7 137
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36	4718	4912	5106	5301	5495	5689	5883	6077	6272	6466	9 176
37	6660	6854	7048	7242	7436	7630	7825	8019	8213	8407	
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44	0229	0422	0616	0809	1003	1196	1390	1583	9841	0035	4 78
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46	4098	4291	4484	4678	4871	5064	5258	5451	3711	3904	6 116
47	6031	6224	6417	6611	6804	6997	7190	7383	5644	5837	7 136
48	7963	8156	8349	8543	8736	8929	9122	9315	7577	7770	8 155
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54	353 9539	9732	9924	0117	0310	0502	0695	0888	9154	9346	1 19
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57	5316	5508	5700	5893	6085	6278	6470	6662	4931	5123	4 77
58	7239	7432	7624	7816	8009	8201	8393	8586	6855	7047	5 97
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63	6846	7037	7229	7421	7613	7805	7997	8189	8381	8572	3 58
64	355 8764	8956	9148	9340	9531	9723	9915	0107	0299	0490	4 77
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66	2599	2791	2982	3174	3366	3557	3749	3940	4132	4324	6 115
67	4515	4707	4898	5090	5281	5473	5664	5856	6048	6239	7 134
68	6431	6622	6813	7005	7196	7388	7579	7771	7962	8154	8 154
69	8345	8536	8728	8919	9111	9302	9493	9685	9876		9 173
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71	2171	2363	2554	2745	2936	3127	3319	3510	3701	3892	
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79	7443	7634	7824	8015	8205	8396	8586	8777	8967	9158	5 96
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81	1253	1443	1634	1824	2014	2205	2395	2585	2776	2966	8 153
82	3156	3347	3537	3727	3918	4108	4298	4488	4679	4869	9 172
83	5059	5249	5440	5630	5820	6010	6200	6391	6581	6771	
84	6961	7151	7341	7531	7722	7912	8102	8292	8482	8672	
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86	0762	0952	1142	1332	1522	1712	1902	2092	2282	2472	
87	2662	2852	3041	3231	3421	3611	3801	3991	4181	4370	190
88	4560	4750	4940	5130	5319	5509	5699	5889	6078	6268	1 19
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91	0251	0440	0630	0820	1009	1199	1388	1578	1767	1957	5 95
92	2146	2336	2525	2715	2904	3093	3283	3472	3662	3851	6 114
93	4041	4230	4419	4609	4798	4987	5177	5366	5555	5745	7 133
94	5934	6123	6313	6502	6691	6881	7070	7259	7448	7638	8 152
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96	361 9719	9908									
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98	3500	3689	3878	4067	4256	4445	4634	4823	5012	5201	
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06	363 8593	8781	8970	9158	9346	9535	9723	9911	0099	0288	6 113
07	0476	0664	0852	1041	1229	1417	1605	1794	1982	2170	7 132
08	2358	2546	2734	2923	3111	3299	3487	3675	3863	4051	8 151
09	4239	4427	4615	4804	4992	5180	5368	5556	5744	5932	9 170
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12	364 9878	0066	0254	0442	0630	0817	1005	1193	1381	1569	188
13	1756	1944	2132	2320	2507	2695	2883	3070	3258	3446	1 19
14	3634	3821	4009	4197	4384	4572	4759	4947	5136	5322	2 38
2315	5510	5698	5885	6073	6260	6448	6635	6823	7010	7198	3 56
16	7385	7573	7761	7948	8136	8323	8511	8698	8885	9073	4 75
17	365 9260	9448	9635	9823							5 94
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22	366 8622	8809	8996	9183	9370	9557	9744	9931	0118	0305
23	0492	0679	0866	1053	1240	1427	1614	1801	1987	2174
24	2361	2548	2735	2922	3109	3296	3482	3669	3856	4043
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26	6097	6284	6471	6657	6844	7031	7217	7404	7591	7777
27	7964	8150	8337	8524	8710	8897	9083	9270	9457	9643
28	367 9830	0016	0203	0389	0576	0762	0949	1135	1322	1508
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31	5423	5609	5795	5982	6168	6354	6540	6727	6913	7099
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33	368 9147	9334	9520	9706	9892	0078	0264	0450	0636	0822
34	1009	1195	1381	1567	1753	1939	2125	2311	2497	2683
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36	4728	4914	5100	5286	5472	5658	5844	6030	6215	6401
37	6587	6773	6959	7145	7330	7516	7702	7888	8074	8259
38	369 8445	8631	8817	9002	9188	9374	9559	9745	9931	0117
39	0302	0488	0674	0859	1045	1230	1416	1602	1787	1973
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47	5131	5316	5501	5686	5871	6056	6241	6426	6611	6796
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49	8830	9015	9200	9385	9570	9754	9939			
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66	374 0147	0331	0515	0698	0882	1065	1249	1432	1616	1799
67	1983	2166	2350	2533	2716	2900	3083	3267	3450	3634
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72	1147	1330	1513	1696	1879	2062	2245	2428	2611	2794
73	2977	3160	3343	3526	3709	3892	4075	4258	4441	4624
74	4807	4990	5173	5356	5539	5722	5905	6088	6270	6453
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76	376 8464	8647	8830	9013	9196	9378	9561	9744	9926	0109
77	0292	0475	0657	0840	1023	1205	1388	1571	1753	1936
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83	1240	1423	1605	1787	1969	2152	2334	2516	2698	2880
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86	6704	6886	7068	7250	7432	7614	7796	7978	8160	8342
87	378 8524	8706	8888	9070	9252	9434	9616	9798	9979	0161
88	0343	0525	0707	0889	1071	1252	1434	1616	1798	1980
89	2161	2343	2525	2707	2889	3070	3252	3434	3616	3797
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92	7612	7793	7975	8156	8338	8519	8701	8882	9064	9245
93	379 9427	9608	9790	9971	0153	0334	0516	0697	0879	1060
94	1241	1423	1604	1786	1967	2148	2330	2511	2692	2874
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98	380 8492	8673	8854	9035	9216	9397	9578	9759	9940	0121
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28	2487	2666	2845	3023	3202	3381	3560	3739	3918	4096
29	4275	4454	4633	4812	4990	5169	5348	5527	5705	5884
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31	7850	8028	8207	8386	8564	8743	8921	9100	9279	9457
32	386 9636	9814	9993	0171	0350	0528	0707	0886	1064	1243
33	1421	1600	1778	1957	2135	2314	2492	2670	2849	3027
34	3206	3384	3563	3741	3919	4098	4276	4455	4633	4811
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37	387 8555	8733	8912	9090	9268	9446	9624	9803	9981	0159
38	0337	0515	0693	0871	1049	1228	1406	1584	1762	1940
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46		4565	4742	4920	5097	5275	5452	5630	5807	5985	6162	6 107
47		6340	6517	6695	6872	7050	7227	7404	7582	7759	7937	7 125
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57		4052	4228	4405	4582	4759	4935	5112	5289	5465	5642	3 53
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59		7585	7762	7939	8115	8292	8468	8645	8821	8998	9175	5 89
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61		1116	1293	1469	1646	1822	1998	2175	2351	2528	2704	9 159
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74		3997	4172	4348	4524	4699	4875	5050	5226	5401	5577	7 123
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76		7506	7682	7857	8033	8208	8383	8559	8734	8909	9085	9 158
77	394	9260	9436	9611	9786	9961	0137	0312	0487	0662	0838	
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16		7106	7279	7452	7624	7797	7969	8142	8314	8487	8660	
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29	403	9488	9660	9832	0003	0175	0347	0519	0690	0862	1034	9 155
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57		7307	7477	7647	7817	7987	8156	8326	8496	8666	8836	5 85
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76		9459	9627	9796	9964	0133	0301	0470	0639	0807	0976	
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87		7964	8132	8300	8468	8636	8804	8971	9139	9307	9475	5 84
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92		6350	6518	6685	6853	7020	7188	7355	7523	7690	7858	
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36	421 9454	9619	9784	9948	0113	0278	0442	0607	0772	0937	7 116
37	1101	1266	1431	1595	1760	1925	2089	2254	2419	2583	8 132
38	2748	2913	3077	3242	3406	3571	3735	3900	4065	4229	9 149
39	4394	4558	4723	4888	5052	5217	5381	5546	5710	5875	
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47	7539	7703	7868	8032	8196	8360	8524	8688	8852	9016	1 16
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67	0230	0393	0556	0719	0881	1044	1207	1370	1533	1695	8 130
68	1858	2021	2184	2347	2509	2672	2835	2998	3160	3323	9 147
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08		6487	6647	6807	6968	7128	7288	7449	7609	7769	7930	
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36		1161	1320	1478	1637	1796	1955	2113	2272	2431	2589	8 127
37		2748	2907	3065	3224	3383	3541	3700	3859	4017	4176	9 143
38		4334	4493	4652	4810	4969	5127	5286	5445	5603	5762	
39		5920	6079	6237	6396	6555	6713	6872	7030	7189	7347	
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41	438	9090	9249	9407	9566	9724	9883	0041	0199	0358	0516
42		0675	0833	0991	1150	1308	1466	1625	1783	1941	2100
43		2258	2416	2575	2733	2891	3050	3208	3366	3525	3683
44		3841	3999	4158	4316	4474	4632	4791	4949	5107	5265
2745		5423	5582	5740	5898	6056	6214	6373	6531	6689	6847
46		7005	7163	7322	7480	7638	7796	7954	8112	8270	8428
47	439	8587	8745	8903	9061	9219	9377	9535	9693	9851	0009
48		0167	0325	0483	0641	0799	0957	1115	1273	1431	1589
49		1747	1906	2063	2221	2379	2537	2695	2853	3011	3169
2750		3327	3485	3643	3801	3959	4116	4274	4432	4590	4748
51		4906	5064	5222	5379	5537	5695	5853	6011	6169	6326
52		6484	6642	6800	6958	7115	7273	7431	7589	7747	7904
53		8062	8220	8378	8535	8693	8851	9009	9166	9324	9482
54	440	9639	9797	9955	0112	0270	0428	0585	0743	0901	1058
2755		1216	1374	1531	1689	1847	2004	2162	2319	2477	2635
56		2792	2950	3107	3265	3422	3580	3738	3895	4053	4210
57		4368	4525	4683	4840	4998	5155	5313	5470	5628	5785
58		5943	6100	6258	6415	6572	6730	6887	7045	7202	7360
59		7517	7674	7832	7989	8147	8304	8461	8619	8776	8933
2760	441	9091	9248	9406	9563	9720	9878	0035	0192	0349	0507
61		0664	0821	0979	1136	1293	1450	1608	1765	1922	2080
62		2237	2394	2551	2708	2866	3023	3180	3337	3494	3652
63		3809	3966	4123	4280	4438	4595	4752	4909	5066	5223
64		5380	5538	5695	5852	6009	6166	6323	6480	6637	6794
2765		6951	7108	7265	7423	7580	7737	7894	8051	8208	8365
66		8522	8679	8836	8993	9150	9307	9464	9621	9778	9935
67	442	0092	0249	0405	0562	0719	0876	1033	1190	1347	1504
68		1661	1818	1975	2132	2288	2445	2602	2759	2916	3073
69		3230	3386	3543	3700	3857	4014	4171	4327	4484	4641
2770		4798	4954	5111	5268	5425	5582	5738	5895	6052	6209
71		6366	6522	6679	6835	6992	7149	7306	7462	7619	7776
72		7932	8089	8246	8402	8559	8716	8872	9029	9185	9342
73	443	9499	9655	9812	9969	0125	0282	0438	0595	0751	0908
74		1065	1221	1378	1534	1691	1847	2004	2160	2317	2473
2775		2630	2786	2943	3099	3256	3412	3569	3725	3882	4038
76		4195	4351	4507	4664	4820	4977	5133	5290	5446	5602
77		5759	5915	6072	6228	6384	6541	6697	6853	7010	7166
78		7322	7479	7635	7791	7948	8104	8260	8417	8573	8729
79		8885	9042	9198	9354	9511	9667	9823	9979		
	444									0136	0292
2780		0448	0604	0760	0917	1073	1229	1385	1541	1698	1854
81		2010	2166	2322	2478	2635	2791	2947	3103	3259	3415
82		3571	3727	3883	4040	4196	4352	4508	4664	4820	4976
83		5132	5288	5444	5600	5756	5912	6068	6224	6380	6536
84		6692	6848	7004	7160	7316	7472	7628	7784	7940	8096
2785		8252	8408	8564	8720	8876	9032	9188	9343	9499	9655
86	445	9811	9967	0123	0279	0435	0590	0746	0902	1058	1214
87		1370	1526	1681	1837	1993	2149	2305	2460	2616	2772
88		2928	3083	3239	3395	3551	3706	3862	4018	4174	4329
89		4485	4641	4797	4952	5108	5264	5419	5575	5731	5886
2790		6042	6198	6353	6509	6665	6820	6976	7132	7287	7443
91		7598	7754	7910	8065	8221	8376	8532	8687	8843	8999
92	446	9154	9310	9465	9621	9776	9932				
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93		0709	0865	1020	1176	1331	1487	1642	1798	1953	2109
94		2264	2419	2575	2730	2886	3041	3197	3352	3507	3663
2795		3818	3974	4129	4284	4440	4595	4750	4906	5061	5216
96		5372	5527	5682	5838	5993	6148	6304	6459	6614	6769
97		6925	7080	7236	7390	7546	7701	7856	8011	8167	8322
98		8477	8632	8788	8943	9098	9253	9408	9563	9719	9874
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diff.

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6	95	94	94
7	111	110	109
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02		4681	4836	4991	5146	5301	5456	5611	5766	5921	6076	2 31
03		6231	6386	6541	6696	6851	7006	7161	7315	7470	7625	3 47
04		7780	7935	8090	8245	8400	8554	8709	8864	9019	9174	4 62
2805	448	9329	9483	9638	9793	9948	0103	0258	0412	0567	0722	5 78
06		0877	1031	1186	1341	1496	1650	1805	1960	2115	2269	6 93
07		2424	2579	2734	2888	3043	3198	3352	3507	3662	3816	7 109
08		3971	4126	4280	4435	4590	4744	4899	5054	5208	5363	8 124
09		5517	5672	5827	5981	6136	6290	6445	6600	6754	6909	9 140
2810		7063	7218	7372	7527	7681	7836	7990	8145	8299	8454	
11		8608	8763	8917	9072	9226	9381	9535	9690	9844	9999	
12	449	0153	0308	0462	0616	0771	0926	1080	1234	1389	1543	
13		1697	1852	2006	2160	2315	2469	2624	2778	2932	3087	
14		3241	3396	3550	3704	3858	4013	4167	4321	4475	4630	
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16		6327	6481	6635	6789	6943	7098	7252	7406	7560	7714	
17		7868	8023	8177	8331	8485	8639	8793	8948	9102	9256	
18		9410	9564	9718	9872	0026	0180	0334	0489	0643	0797	
19	450	0951	1105	1259	1413	1567	1721	1875	2029	2183	2337	154
2820		2491	2645	2799	2953	3107	3261	3415	3569	3723	3877	1 15
21		4031	4185	4339	4493	4647	4801	4954	5108	5262	5416	2 31
22		5570	5724	5878	6032	6186	6340	6493	6647	6801	6955	3 46
23		7109	7263	7416	7570	7724	7878	8032	8186	8339	8493	4 62
24	451	8647	8801	8954	9108	9262	9416	9570	9723	9877	0031	5 77
2825		0185	0338	0492	0646	0799	0953	1107	1261	1414	1568	6 92
26		1722	1876	2029	2183	2336	2490	2644	2797	2951	3104	7 108
27		3258	3412	3565	3719	3873	4026	4180	4333	4487	4640	8 123
28		4794	4948	5101	5255	5408	5562	5715	5869	6022	6176	9 139
29		6329	6483	6636	6790	6943	7097	7250	7404	7557	7711	
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31	452	9399	9552	9705	9859	0012	0166	0319	0472	0626	0779	
32		0932	1086	1239	1393	1546	1699	1853	2006	2159	2312	
33		2466	2619	2772	2926	3079	3232	3386	3539	3692	3845	
34		3998	4152	4305	4458	4611	4765	4918	5071	5224	5377	
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36		7062	7215	7369	7522	7675	7828	7981	8134	8287	8440	153
37		8593	8746	8900	9053	9206	9359	9512	9665	9818	9971	1 15
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39		1654	1807	1960	2113	2266	2419	2572	2725	2878	3030	3 46
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41		4712	4865	5018	5171	5324	5477	5629	5782	5935	6088	5 77
42		6241	6394	6546	6699	6852	7005	7158	7310	7463	7616	6 92
43		7769	7921	8074	8227	8380	8532	8685	8838	8990	9143	7 107
44	454	9296	9449	9601	9754	9907	0059	0212	0365	0517	0670	8 122
2845		0823	0975	1128	1281	1433	1586	1739	1891	2044	2196	9 138
46		2349	2502	2654	2807	2959	3112	3264	3417	3570	3722	
47		3875	4027	4180	4332	4485	4637	4790	4942	5095	5247	
48		5400	5552	5705	5857	6010	6162	6315	6467	6620	6772	
49		6924	7077	7229	7382	7534	7687	7839	7991	8144	8296	
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51	455	9972	0125	0277	0429	0581	0734	0886	1038	1191	1343	
52		1495	1647	1800	1952	2104	2257	2409	2561	2713	2865	152
53		3018	3170	3322	3474	3627	3779	3931	4083	4235	4388	1 15
54		4540	4692	4844	4996	5148	5300	5453	5605	5757	5909	2 30
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56		7582	7734	7886	8038	8190	8342	8494	8646	8798	8950	4 61
57	456	9102	9254	9406	9558	9710	9862	0014	0166	0318	0470	5 76
58		0622	0774	0926	1078	1230	1382	1534	1686	1838	1990	6 91
59		2142	2293	2445	2597	2749	2901	3053	3205	3357	3508	7 106
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61		5179	5330	5482	5634	5786	5938	6089	6241	6393	6545
62		6696	6848	7000	7152	7303	7455	7607	7758	7910	8062
63		8213	8365	8517	8669	8820	8972	9124	9275	9427	9578
64	457	9730	9882	0033	0185	0337	0488	0640	0791	0943	1095
2865		1246	1398	1549	1701	1853	2004	2156	2307	2459	2610
66		2762	2913	3065	3216	3368	3519	3671	3822	3974	4125
67		4277	4428	4580	4731	4883	5034	5186	5337	5489	5640
68		5791	5943	6094	6246	6397	6549	6700	6851	7003	7154
69		7305	7457	7608	7760	7911	8062	8214	8365	8516	8668
2870	458	8819	8970	9122	9273	9424	9576	9727	9878	0029	0181
71		0332	0483	0634	0786	0937	1088	1239	1391	1542	1693
72		1844	1996	2147	2298	2449	2600	2752	2903	3054	3205
73		3356	3507	3659	3810	3961	4112	4263	4414	4565	4717
74		4868	5019	5170	5321	5472	5623	5774	5925	6076	6227
2875		6378	6530	6681	6832	6983	7134	7285	7436	7587	7738
76		7889	8040	8191	8342	8493	8644	8795	8946	9097	9248
77	459	9399	9550	9701	9851	0002	0153	0304	0455	0606	0757
78		0908	1059	1210	1361	1511	1662	1813	1964	2115	2266
79		2417	2567	2718	2869	3020	3171	3322	3472	3623	3774
2880		3925	4076	4226	4377	4528	4679	4830	4980	5131	5282
81		5433	5583	5734	5885	6036	6186	6337	6488	6638	6789
82		6940	7090	7241	7392	7542	7693	7844	7994	8145	8295
83		8446	8597	8748	8898	9049	9200	9350	9501	9651	9802
84	460	9953	0103	0254	0404	0556	0705	0856	1007	1157	1308
2885		1458	1609	1759	1910	2060	2211	2361	2512	2662	2813
86		2963	3114	3264	3415	3565	3716	3866	4017	4167	4317
87		4468	4618	4769	4919	5070	5220	5370	5521	5671	5822
88		5972	6122	6273	6423	6573	6724	6874	7024	7175	7325
89		7475	7626	7776	7926	8077	8227	8377	8528	8678	8828
2890	461	8978	9129	9279	9429	9579	9730	9880	0030	0180	0331
91		0481	0631	0781	0932	1082	1232	1382	1532	1683	1833
92		1983	2133	2283	2433	2584	2734	2884	3034	3184	3334
93		3484	3634	3785	3935	4085	4235	4385	4535	4685	4835
94		4985	5135	5285	5435	5585	5736	5886	6036	6186	6336
2895		6486	6636	6786	6936	7086	7236	7386	7536	7686	7836
96		7986	8136	8285	8435	8585	8735	8885	9035	9185	9335
97	462	9485	9635	9785	9935	0085	0234	0384	0534	0684	0834
98		0984	1134	1284	1433	1583	1733	1883	2033	2183	2332
99		2482	2632	2782	2932	3081	3231	3381	3531	3680	3830
2900		3980	4130	4279	4429	4579	4729	4878	5028	5178	5328
01		5477	5627	5777	5926	6076	6226	6375	6525	6675	6824
02		6974	7124	7273	7423	7573	7722	7872	8022	8171	8321
03		8470	8620	8770	8919	9069	9218	9368	9517	9667	9817
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06		2956	3106	3255	3404	3554	3703	3853	4002	4152	4301
07		4450	4600	4749	4898	5048	5197	5347	5496	5645	5795
08		5944	6093	6243	6392	6541	6691	6840	6989	7139	7288
09		7437	7587	7736	7885	8034	8184	8333	8482	8631	8781
2910	464	8930	9079	9228	9378	9527	9676	9825	9974	0124	0273
11		0422	0571	0720	0870	1019	1168	1317	1466	1615	1765
12		1914	2063	2212	2361	2510	2659	2808	2958	3107	3256
13		3405	3554	3703	3852	4001	4150	4299	4448	4597	4746
14		4895	5045	5194	5343	5492	5641	5790	5939	6088	6237
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17	465	9364	9513	9662	9811	9960	0109	0258	0406	0555	0704
18		0853	1002	1151	1299	1448	1597	1746	1895	2043	2192
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diff.

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7	106	105	104
8	121	120	119
9	136	135	134

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23	8288	8437	8585	8734	8882	9031	9180	9328	9477	9625	3 45
24	466 9774	9922	0071	0219	0368	0516	0665	0813	0962	1110	4 60
9925	1259	1407	1556	1704	1853	2001	2149	2298	2446	2595	5 75
26	2743	2892	3040	3188	3337	3485	3634	3782	3930	4079	6 89
27	4227	4376	4524	4672	4821	4969	5117	5266	5414	5562	7 104
28	5711	5859	6007	6156	6304	6452	6601	6749	6897	7045	8 119
29	7194	7342	7490	7639	7787	7935	8083	8232	8380	8528	9 134
9930	467 8676	8824	8973	9121	9269	9417	9565	9714	9862	0010	
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32	1640	1788	1936	2084	2232	2380	2528	2676	2824	2973	
33	3121	3269	3417	3565	3713	3861	4009	4157	4305	4453	
34	4601	4749	4897	5045	5193	5341	5489	5637	5785	5933	
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36	7561	7708	7856	8004	8152	8300	8448	8596	8744	8892	1 15
37	468 9039	9187	9335	9483	9631	9779	9927	0074	0222	0370	2 30
38	0518	0666	0814	0961	1109	1257	1405	1553	1700	1848	3 44
39	1996	2144	2291	2439	2587	2735	2882	3030	3178	3326	4 59
											5 74
9940	3473	3621	3769	3916	4064	4212	4360	4507	4655	4803	6 89
41	4950	5098	5246	5393	5541	5689	5836	5984	6131	6279	7 104
42	6427	6574	6722	6870	7017	7165	7312	7460	7607	7755	8 118
43	7903	8050	8198	8345	8493	8640	8788	8935	9083	9231	9 133
44	469 9378	9526	9673	9821	9968	0116	0263	0411	0558	0706	
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46	2327	2475	2622	2770	2917	3064	3212	3359	3507	3654	
47	3801	3949	4096	4243	4391	4538	4685	4833	4980	5127	
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51	470 9692	9839	9986	0134	0281	0428	0575	0722	0869	1016	
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53	2634	2782	2929	3076	3223	3370	3517	3664	3811	3958	
54	4105	4252	4399	4546	4693	4840	4987	5134	5281	5428	
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56	7044	7191	7338	7485	7632	7779	7926	8073	8219	8366	1 15
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76	6329	6475	6621	6767	6913	7058	7205	7351	7497	7642	4 58
77	7788	7934	8080	8226	8372	8518	8664	8809	8955	9101	5 73
78	474 9247	9393	9539	9684	9830	9976	0122	0268	0413	0559	6 88
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13	479 9991	0135	0280	0424	0568	0712	0856	1000	1144	1288
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33	482 8724	8867	9010	9154	9297	9440	9583	9726	9869	0013
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08		4810	4950	5090	5229	5369	5509	5648	5788	5928	6068
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38		6529	6668	6806	6945	7083	7221	7360	7498	7636	7775
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43		3444	3582	3720	3858	3996	4135	4273	4411	4549	4687
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76		8805	8942	9078	9215	9352	9489	9626	9762	9899	0036	8 110
	502											9 123
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78		1539	1676	1812	1949	2086	2222	2359	2496	2632	2769	
79		2905	3042	3178	3315	3452	3588	3725	3861	3998	4135	
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81		5637	5773	5910	6046	6183	6319	6456	6592	6729	6865	
82		7002	7138	7275	7411	7548	7684	7821	7957	8093	8230	
83		8366	8503	8639	8776	8912	9049	9185	9321	9458	9594	
84		9731	9867	0003	0140	0276	0413	0549	0685	0822	0958	
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87		3821	3957	4093	4229	4366	4502	4638	4774	4911	5047	
88		5183	5319	5456	5592	5728	5864	6000	6137	6273	6409	
89		6545	6681	6818	6954	7090	7226	7362	7498	7635	7771	
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91		9268	9404	9540	9676	9812	9948	0085	0221	0357	0493	
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92		0629	0765	0901	1037	1173	1309	1445	1581	1717	1853	
93		1989	2125	2261	2397	2533	2669	2805	2941	3077	3213	
94		3349	3485	3621	3757	3893	4029	4165	4301	4437	4573	
3195		4709	4845	4980	5116	5252	5388	5524	5660	5796	5932	136
96		6068	6204	6339	6475	6611	6747	6883	7019	7155	7291	1 14
97		7426	7562	7698	7834	7970	8106	8241	8377	8513	8649	2 27
98		8785	8920	9056	9192	9328	9464	9599	9735	9871	0007	3 41
	505											4 54
99		0142	0278	0414	0550	0685	0821	0957	1093	1228	1364	5 68
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02		4213	4349	4485	4620	4756	4891	5027	5163	5298	5434	9 122
03		5569	5705	5841	5976	6112	6247	6383	6518	6654	6790	
04		6925	7061	7196	7332	7467	7603	7738	7874	8009	8145	
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06		9635	9771	9906	0042	0177	0312	0448	0583	0719	0854	
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08		2344	2479	2614	2750	2885	3020	3156	3291	3426	3562	
09		3697	3833	3968	4103	4238	4374	4509	4644	4780	4915	
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11		6403	6538	6674	6809	6944	7079	7214	7350	7485	7620	
12		7756	7891	8026	8161	8296	8431	8567	8702	8837	8972	
13		9107	9242	9378	9513	9648	9783	9918	0053	0188	0324	
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3215		1810	1945	2080	2215	2350	2485	2620	2755	2890	3025	
16		3160	3295	3430	3566	3701	3836	3971	4106	4241	4376	
17		4511	4646	4781	4916	5051	5186	5321	5456	5590	5725	
18		5860	5995	6130	6265	6400	6535	6670	6805	6940	7075	
19		7210	7345	7480	7614	7749	7884	8019	8154	8289	8424	
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22		1255	1390	1525	1660	1794	1929	2064	2199	2334	2468
23		2603	2738	2873	3007	3142	3277	3411	3546	3681	3816
24		3950	4085	4220	4354	4489	4624	4758	4893	5028	5163
3225		5297	5432	5567	5701	5836	5970	6105	6240	6374	6509
26		6644	6778	6913	7047	7182	7317	7451	7586	7720	7855
27		7990	8124	8259	8393	8528	8663	8797	8932	9066	9201
28		9336	9470	9604	9739	9873	0008	0142	0277	0411	0546
29	509	0680	0815	0949	1084	1218	1353	1487	1622	1756	1891
3230		2025	2160	2294	2429	2563	2697	2832	2966	3101	3235
31		3370	3504	3638	3773	3907	4042	4176	4310	4445	4579
32		4714	4848	4982	5117	5251	5385	5520	5654	5788	5923
33		6057	6191	6326	6460	6594	6729	6863	6997	7132	7266
34		7400	7534	7669	7803	7937	8072	8206	8340	8474	8609
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36	510	0085	0219	0354	0488	0622	0756	0890	1024	1159	1293
37		1427	1561	1695	1829	1964	2098	2232	2366	2500	2634
38		2768	2903	3037	3171	3305	3439	3573	3707	3841	3976
39		4109	4244	4378	4512	4646	4780	4914	5048	5182	5316
3240		5450	5584	5718	5852	5986	6120	6254	6388	6522	6656
41		6790	6924	7058	7192	7326	7460	7594	7728	7862	7996
42		8130	8264	8398	8532	8666	8800	8934	9068	9202	9336
43	511	9469	9603	9737	9871	0005	0139	0273	0407	0541	0675
44		0808	0942	1076	1210	1344	1478	1612	1745	1879	2013
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46		3485	3619	3753	3887	4020	4154	4288	4422	4555	4689
47		4823	4957	5090	5224	5358	5492	5625	5759	5893	6026
48		6160	6294	6428	6561	6695	6829	6962	7096	7230	7363
49		7497	7631	7764	7898	8032	8165	8299	8433	8566	8700
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51		0170	0303	0437	0570	0704	0838	0971	1105	1238	1372
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53		2841	2974	3108	3241	3375	3508	3642	3775	3909	4042
54		4175	4309	4442	4576	4709	4843	4976	5110	5243	5377
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56		6844	6977	7111	7244	7377	7511	7644	7778	7911	8044
57		8178	8311	8444	8578	8711	8844	8978	9111	9244	9377
58	513	9511	9644	9777	9911	0044	0177	0311	0444	0577	0710
59		0844	0977	1110	1243	1377	1510	1643	1776	1910	2043
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61		3508	3641	3774	3908	4041	4174	4307	4440	4573	4706
62		4840	4973	5106	5239	5372	5505	5638	5771	5905	6038
63		6171	6304	6437	6570	6703	6836	6969	7102	7235	7368
64		7502	7635	7768	7901	8034	8167	8300	8433	8566	8699
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67		1491	1624	1757	1890	2023	2156	2289	2422	2555	2688
68		2820	2953	3086	3219	3352	3485	3618	3751	3883	4016
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71		6805	6938	7071	7204	7336	7469	7602	7735	7867	8000
72		8133	8266	8398	8531	8664	8797	8929	9062	9195	9327
73	515	9460	9593	9725	9858	9991	0123	0256	0389	0521	0654
74		0787	0919	1052	1185	1317	1450	1583	1715	1848	1980
3275		2113	2246	2378	2511	2643	2776	2909	3041	3174	3306
76		3439	3571	3704	3837	3969	4102	4234	4367	4499	4632
77		4764	4897	5029	5162	5294	5427	5560	5692	5825	5957
78		6089	6222	6354	6487	6619	6752	6884	7017	7149	7282
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9	122	121	120

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83	2709	2841	2973	3106	3238	3370	3502	3635	3767	3899
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86	6676	6808	6940	7072	7204	7336	7469	7601	7733	7865
87	7997	8129	8261	8393	8526	8658	8790	8922	9054	9186
88	517 9318	9450	9582	9714	9846	9978	0111	0243	0375	0507
89	0639	0771	0903	1035	1167	1299	1431	1563	1695	1827
3290	1959	2091	2223	2355	2487	2619	2751	2883	3015	3147
91	3279	3411	3543	3675	3807	3939	4071	4202	4334	4466
92	4598	4730	4862	4994	5126	5258	5390	5522	5654	5785
93	5917	6049	6181	6313	6445	6577	6709	6840	6972	7104
94	7236	7368	7500	7631	7763	7895	8027	8159	8291	8422
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96	518 9872	0004	0136	0267	0399	0531	0663	0794	0926	1058
97	1189	1321	1453	1585	1716	1848	1980	2111	2243	2375
98	2507	2638	2770	2902	3033	3165	3297	3428	3560	3692
99	3823	3955	4086	4218	4350	4481	4613	4745	4876	5008
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02	7771	7902	8034	8165	8297	8428	8560	8691	8823	8954
03	519 9086	9217	9349	9480	9612	9743	9875	0006	0137	0269
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06	3028	3160	3291	3423	3554	3685	3817	3948	4079	4211
07	4342	4473	4605	4736	4867	4999	5130	5261	5392	5524
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09	6968	7099	7230	7361	7493	7624	7755	7886	8018	8149
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13	2214	2345	2477	2608	2739	2870	3001	3132	3263	3394
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16	6145	6276	6407	6538	6669	6800	6931	7062	7193	7324
17	7455	7586	7717	7847	7978	8109	8240	8371	8502	8633
18	8764	8895	9026	9156	9287	9418	9549	9680	9811	9942
19	521 0073	0203	0334	0465	0596	0727	0858	0988	1119	1250
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21	2689	2820	2950	3081	3212	3343	3473	3604	3735	3866
22	3996	4127	4258	4388	4519	4650	4781	4911	5042	5173
23	5303	5434	5565	5695	5826	5957	6088	6218	6349	6479
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33	8353	8483	8614	8744	8874	9005	9135	9265	9395	9526
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37	3562	3692	3822	3952	4083	4213	4343	4473	4603	4733
38	4863	4993	5124	5254	5384	5514	5644	5774	5904	6034
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47	6557	6687	6817	6946	7076	7206	7336	7465	7595	7725	7 91
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57	526 9513	9643	9772	9902	0031	0160	0290	0419	0548	0678	
58	0807	0936	1066	1195	1324	1454	1583	1712	1841	1971	
59	2100	2229	2359	2488	2617	2746	2876	3005	3134	3264	
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61	4685	4814	4944	5073	5202	5331	5460	5590	5719	5848	
62	5977	6106	6236	6365	6494	6623	6752	6881	7010	7140	
63	7269	7398	7527	7656	7785	7914	8043	8173	8302	8431	
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66	1141	1270	1399	1528	1657	1786	1915	2044	2173	2302	1 13
67	2431	2560	2689	2818	2947	3076	3205	3334	3463	3592	2 26
68	3721	3850	3979	4108	4237	4366	4494	4623	4752	4881	3 39
69	5010	5139	5268	5397	5526	5655	5783	5912	6041	6170	4 52
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71	7588	7716	7845	7974	8103	8232	8360	8489	8618	8747	6 77
72	528 8876	9004	9133	9262	9391	9520	9648	9777	9906	0035	7 90
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76	4024	4153	4282	4410	4539	4668	4796	4925	5053	5182	
77	5311	5439	5568	5696	5825	5954	6082	6211	6339	6468	
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79	7882	8010	8139	8267	8396	8525	8653	8782	8910	9039	
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82	1736	1864	1993	2121	2250	2378	2506	2635	2763	2892	
83	3020	3148	3277	3405	3533	3662	3790	3919	4047	4175	
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86	6870	6998	7126	7254	7383	7511	7639	7767	7896	8024	
87	8152	8280	8408	8537	8665	8793	8921	9049	9178	9306	
88	530 9434	9562	9690	9819	9947	0075	0203	0331	0459	0588	
89	0716	0844	0972	1100	1228	1356	1485	1613	1741	1869	
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91	3278	3406	3534	3662	3790	3918	4046	4174	4302	4430	
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93	5839	5967	6095	6223	6351	6479	6607	6734	6862	6990	1 13
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97	0955	1083	1211	1339	1467	1595	1722	1850	1978	2106	5 64
98	2234	2362	2489	2617	2745	2873	3001	3128	3256	3384	6 77
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01	6066	6194	6322	6449	6577	6705	6832	6960	7088	7215
02	7343	7471	7598	7726	7854	7981	8109	8237	8364	8492
03	8619	8747	8875	9002	9130	9258	9385	9513	9640	9768
04	9896									
	532	0023	0151	0278	0406	0533	0661	0789	0916	1044
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06	2446	2574	2701	2829	2956	3084	3211	3339	3466	3594
07	3721	3849	3976	4104	4231	4359	4486	4614	4741	4868
08	4996	5123	5251	5378	5506	5633	5760	5888	6015	6143
09	6270	6397	6525	6652	6780	6907	7034	7162	7289	7416
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11	8817	8945	9072	9199	9326	9454	9581	9708	9836	9963
12	533 0090	0218	0345	0472	0599	0727	0854	0981	1108	1236
13	1363	1490	1617	1745	1872	1999	2126	2254	2381	2508
14	2636	2762	2890	3017	3144	3271	3398	3526	3653	3780
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16	5179	5306	5433	5560	5687	5814	5941	6068	6196	6323
17	6450	6577	6704	6831	6958	7085	7212	7339	7466	7594
18	7721	7848	7975	8102	8229	8356	8483	8610	8737	8864
19	534 8991	9118	9245	9372	9499	9626	9753	9880	0007	0134
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21	1531	1658	1785	1912	2039	2166	2292	2419	2546	2673
22	2800	2927	3054	3181	3308	3435	3561	3688	3815	3942
23	4069	4196	4323	4450	4576	4703	4830	4957	5084	5211
24	5338	5464	5591	5718	5845	5972	6099	6225	6352	6479
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26	7874	8000	8127	8254	8381	8507	8634	8761	8888	9014
27	535 9141	9268	9394	9521	9648	9775	9901			
28	0408	0535	0662	0788	0915	1042	1168	0028	0155	0281
29	1675	1802	1928	2055	2181	2308	2435	1295	1422	1548
3430	2941	3068	3194	3321	3448	3574	3701	2561	2688	2815
31	4207	4334	4460	4587	4713	4840	4967	3827	3954	4081
32	5473	5599	5726	5852	5979	6105	6232	5093	5220	5346
33	6739	6866	6991	7118	7244	7371	7497	6359	6485	6612
34	8003	8129	8256	8382	8509	8635	8762	7624	7750	7876
3435	536 9267	9394	9520	9647	9773	9900	0026	8888	9015	9141
36	0532	0658	0784	0911	1037	1163	1290	0152	0279	0405
37	1795	1922	2048	2174	2301	2427	2553	1416	1543	1669
38	3059	3185	3311	3438	3564	3690	3817	2680	2806	2932
39	4322	4448	4574	4701	4827	4953	5079	3943	4069	4195
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41	6847	6973	7099	7225	7352	7478	7604	6468	6594	6721
42	8109	8235	8361	8487	8613	8739	8866	7730	7856	7982
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44	0631	0758	0884	1010	1136	1262	1388	0253	0379	0505
3445	1892	2018	2144	2270	2396	2523	2649	1514	1640	1766
46	3153	3279	3405	3531	3657	3783	3909	2775	2901	3027
47	4413	4539	4665	4791	4917	5043	5169	4036	4161	4287
48	5673	5799	5924	6050	6176	6302	6428	5296	5421	5547
49	6932	7058	7184	7310	7436	7561	7687	6554	6680	6806
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51	538 9450	9576	9701	9827	9953	0079	0205	9072	9198	9324
52	0708	0834	0959	1085	1211	1337	1463	0330	0456	0582
53	1966	2092	2217	2343	2469	2595	2720	1588	1714	1840
54	3223	3349	3475	3601	3726	3852	3978	2846	2972	3098
3455	4481	4606	4732	4858	4983	5109	5236	4103	4229	4355
56	5737	5863	5989	6114	6240	6366	6491	5360	5486	5612
57	6994	7119	7245	7371	7496	7622	7747	6617	6743	6868
58	8250	8375	8501	8627	8752	8878	9003	7873	7999	8124
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62	3271	3396	3522	3647	3772	3898	4023	4149	4274	4400
63	4525	4650	4776	4901	5027	5152	5277	5403	5528	5653
64	5779	5904	6030	6155	6280	6406	6531	6656	6782	6907
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66	8286	8411	8536	8661	8787	8912	9037	9163	9288	9413
67	540 9538	9664	9789	9914	0039	0165	0290	0415	0540	0666
68	0791	0916	1041	1167	1292	1417	1542	1667	1793	1918
69	2043	2168	2293	2419	2544	2669	2794	2919	3044	3170
3470	3295	3420	3545	3670	3795	3920	4046	4171	4296	4421
71	4546	4671	4796	4921	5047	5172	5297	5422	5547	5672
72	5797	5922	6047	6172	6297	6423	6548	6673	6798	6923
73	7048	7173	7298	7423	7548	7673	7798	7923	8048	8173
74	8298	8423	8548	8673	8798	8923	9048	9173	9298	9423
3475	541 9548	9673	9798	9923	0048	0173	0298	0423	0548	0673
76	0798	0923	1048	1172	1297	1422	1547	1672	1797	1922
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78	3296	3421	3546	3670	3795	3920	4045	4170	4295	4419
79	4544	4669	4794	4919	5044	5168	5293	5418	5543	5668
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81	7040	7165	7290	7415	7539	7664	7789	7913	8038	8163
82	8288	8412	8537	8662	8787	8911	9036	9161	9285	9410
83	542 9535	9659	9784	9909	0033	0158	0283	0407	0532	0657
84	0781	0906	1031	1155	1280	1405	1529	1654	1779	1903
3485	2028	2152	2277	2402	2526	2651	2775	2900	3025	3149
86	3274	3398	3523	3648	3772	3897	4021	4146	4270	4395
87	4519	4644	4769	4893	5018	5142	5267	5391	5516	5640
88	5765	5889	6014	6138	6263	6387	6512	6636	6761	6885
89	7010	7134	7259	7383	7508	7632	7756	7881	8005	8130
3490	8254	8379	8503	8628	8752	8876	9001	9125	9250	9374
91	543 9498	9623	9747	9872	9996	0120	0245	0369	0494	0618
92	0742	0867	0991	1115	1240	1364	1488	1613	1737	1862
93	1986	2110	2235	2359	2483	2607	2732	2856	2980	3105
94	3229	3353	3478	3602	3726	3850	3975	4099	4223	4348
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96	5714	5838	5963	6087	6211	6335	6460	6584	6708	6832
97	6956	7081	7205	7329	7453	7577	7701	7826	7950	8074
98	8198	8322	8446	8571	8695	8819	8943	9067	9191	9315
99	544 9439	9564	9688	9812	9936	0060	0184	0308	0432	0556
3500	0680	0805	0929	1053	1177	1301	1425	1549	1673	1797
01	1921	2045	2169	2293	2417	2541	2665	2789	2913	3037
02	3161	3285	3409	3533	3657	3781	3905	4029	4153	4277
03	4401	4525	4649	4773	4897	5021	5145	5269	5393	5517
04	5641	5765	5889	6013	6137	6261	6385	6508	6632	6756
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06	8119	8243	8367	8491	8615	8738	8862	8986	9110	9234
07	545 9358	9481	9605	9729	9853	9977	0101	0224	0348	0472
08	0596	0720	0843	0967	1091	1215	1339	1462	1586	1710
09	1834	1957	2081	2205	2329	2452	2576	2700	2824	2947
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11	4308	4432	4555	4679	4803	4927	5050	5174	5298	5421
12	5545	5669	5792	5916	6040	6163	6287	6411	6534	6658
13	6781	6905	7029	7152	7276	7400	7523	7647	7770	7894
14	8018	8141	8265	8388	8512	8635	8759	8883	9006	9130
3515	546 9253	9377	9500	9624	9747	9871	9995	0118	0242	0365
16	0489	0612	0736	0859	0983	1106	1230	1353	1477	1600
17	1724	1847	1971	2094	2218	2341	2465	2588	2711	2835
18	2958	3082	3205	3329	3452	3576	3699	3822	3946	4069
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21		6660	6784	6907	7030	7154	7277	7400	7524	7647	7770
22		7894	8017	8140	8263	8387	8510	8633	8757	8880	9003
23	547	9126	9250	9373	9496	9620	9743	9866	9989	0113	0236
24		0359	0482	0605	0729	0852	0975	1098	1222	1345	1468
3525		1591	1714	1838	1961	2084	2207	2330	2454	2577	2700
26		2823	2946	3069	3193	3316	3439	3562	3685	3808	3931
27		4055	4178	4301	4424	4547	4670	4793	4916	5040	5163
28		5286	5409	5532	5655	5778	5901	6024	6147	6270	6394
29		6517	6640	6763	6886	7009	7132	7255	7378	7501	7624
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31	548	8977	9100	9223	9346	9469	9592	9715	9838	9961	0084
32		0207	0330	0453	0576	0699	0822	0945	1068	1191	1313
33		1436	1559	1682	1805	1928	2051	2174	2297	2420	2543
34		2665	2788	2911	3034	3157	3280	3403	3526	3648	3771
3535		3894	4017	4140	4263	4386	4508	4631	4754	4877	5000
36		5123	5245	5368	5491	5614	5737	5859	5982	6105	6228
37		6351	6473	6596	6719	6842	6964	7087	7210	7333	7456
38		7578	7701	7824	7947	8069	8192	8315	8437	8560	8683
39		8806	8928	9051	9174	9296	9419	9542	9665	9787	9910
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41		1259	1382	1505	1627	1750	1872	1995	2118	2240	2363
42		2486	2608	2731	2853	2976	3099	3221	3344	3466	3589
43		3712	3834	3957	4079	4202	4324	4447	4569	4692	4815
44		4937	5060	5182	5305	5427	5550	5672	5795	5917	6040
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46		7387	7510	7632	7755	7877	8000	8122	8245	8367	8489
47		8612	8734	8857	8979	9102	9224	9346	9469	9591	9714
48	550	9836	9959	0081	0203	0326	0448	0570	0693	0815	0938
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51		3507	3629	3751	3874	3996	4118	4240	4363	4485	4607
52		4730	4852	4974	5096	5219	5341	5463	5585	5708	5830
53		5952	6074	6197	6319	6441	6563	6685	6808	6930	7052
54		7174	7296	7419	7541	7663	7785	7907	8030	8152	8274
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56	551	9618	9740	9862	9984	0106	0228	0350	0472	0594	0717
57		0839	0961	1083	1205	1327	1449	1571	1693	1815	1937
58		2059	2181	2304	2426	2548	2670	2792	2914	3036	3158
59		3280	3402	3524	3646	3768	3890	4012	4134	4256	4378
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61		5720	5842	5964	6086	6208	6329	6451	6573	6695	6817
62		6939	7061	7183	7305	7427	7549	7671	7793	7914	8036
63		8158	8280	8402	8524	8646	8768	8890	9011	9133	9255
64	552	9377	9499	9621	9743	9864	9986	0108	0230	0352	0474
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66		1813	1935	2057	2179	2301	2422	2544	2666	2788	2909
67		3031	3153	3275	3396	3518	3640	3762	3883	4005	4127
68		4248	4370	4492	4614	4735	4857	4979	5100	5222	5344
69		5465	5587	5709	5831	5952	6074	6196	6317	6439	6561
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71		7899	8020	8142	8263	8385	8507	8628	8750	8871	8993
72	553	9115	9236	9358	9479	9601	9722	9844	9965	0087	0209
73		0330	0452	0573	0695	0816	0938	1059	1181	1302	1424
74		1545	1667	1789	1910	2032	2153	2275	2396	2517	2639
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76		3975	4097	4218	4339	4461	4582	4704	4825	4947	5068
77		5189	5311	5432	5554	5675	5796	5918	6039	6161	6282
78		6403	6525	6646	6767	6889	7010	7132	7253	7374	7496
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82	1256	1377	1498	1620	1741	1862	1983	2104	2226	2347
83	2468	2589	2710	2832	2953	3074	3195	3316	3438	3559
84	3680	3801	3922	4044	4165	4286	4407	4528	4649	4770
3585	4892	5013	5134	5255	5376	5497	5618	5740	5861	5982
86	6103	6224	6345	6466	6587	6708	6829	6951	7072	7193
87	7314	7435	7556	7677	7798	7919	8040	8161	8282	8403
88	8524	8645	8766	8887	9008	9130	9251	9372	9493	9614
89	555 9735	9856	9977	0098	0219	0340	0461	0582	0703	0824
3590	0944	1065	1186	1307	1428	1549	1670	1791	1912	2033
91	2154	2275	2396	2517	2638	2759	2880	3001	3121	3242
92	3363	3484	3605	3726	3847	3968	4089	4210	4330	4451
93	4572	4693	4814	4935	5056	5176	5297	5418	5539	5660
94	5781	5902	6022	6143	6264	6385	6506	6627	6747	6868
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96	8197	8318	8438	8559	8680	8801	8921	9042	9163	9284
97	556 9404	9525	9646	9767	9887	0008	0129	0249	0370	0491
98	0612	0732	0853	0974	1094	1215	1336	1456	1577	1698
99	1818	1939	2060	2180	2301	2422	2542	2663	2784	2904
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01	4231	4352	4472	4593	4714	4834	4955	5075	5196	5317
02	5437	5558	5678	5799	5919	6040	6160	6281	6402	6522
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04	7848	7968	8089	8209	8330	8450	8571	8691	8812	8932
3605	557 9053	9173	9294	9414	9535	9655	9775	9896	0016	0137
06	0257	0378	0498	0619	0739	0859	0980	1100	1221	1341
07	1461	1582	1702	1823	1943	2063	2184	2304	2425	2545
08	2665	2786	2906	3026	3147	3267	3387	3508	3628	3748
09	3869	3989	4109	4230	4350	4470	4591	4711	4831	4952
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11	6275	6395	6515	6636	6756	6876	6996	7117	7237	7357
12	7477	7598	7718	7838	7958	8079	8199	8319	8439	8559
13	8680	8800	8920	9040	9160	9281	9401	9521	9641	9761
14	558 9881	0002	0122	0242	0362	0482	0602	0723	0843	0963
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16	2284	2404	2524	2645	2765	2885	3005	3125	3245	3365
17	3485	3605	3725	3845	3965	4085	4205	4325	4446	4566
18	4686	4806	4926	5046	5166	5286	5406	5526	5646	5766
19	5886	6006	6126	6246	6366	6486	6606	6726	6846	6966
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21	8285	8405	8525	8645	8765	8885	9005	9125	9245	9365
22	559 9484	9604	9724	9844	9964	0084	0204	0324	0444	0563
23	0683	0803	0923	1043	1163	1283	1403	1522	1642	1762
24	1882	2002	2122	2241	2361	2481	2601	2721	2840	2960
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26	4278	4398	4518	4637	4757	4877	4997	5116	5236	5356
27	5476	5595	5715	5835	5954	6074	6194	6314	6433	6553
28	6673	6792	6912	7032	7152	7271	7391	7511	7630	7750
29	7870	7989	8109	8229	8348	8468	8588	8707	8827	8947
3630	560 9066	9186	9306	9425	9545	9664	9784	9904	0023	0143
31	0262	0382	0502	0621	0741	0860	0980	1100	1219	1339
32	1458	1578	1698	1817	1937	2056	2176	2295	2415	2534
33	2654	2774	2893	3013	3132	3252	3371	3491	3610	3730
34	3849	3969	4088	4208	4327	4447	4566	4686	4805	4925
3635	5044	5164	5283	5403	5522	5641	5761	5880	6000	6119
36	6239	6358	6478	6597	6716	6836	6955	7075	7194	7314
37	7433	7552	7672	7791	7911	8030	8149	8269	8388	8508
38	8627	8746	8866	8985	9104	9224	9343	9463	9582	9701
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62	7183	7302	7421	7539	7658	7776	7895	8013	8132	8251
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66	1925	2043	2162	2280	2398	2517	2635	2754	2872	2991
67	3109	3228	3346	3464	3583	3701	3820	3938	4056	4175
68	4293	4412	4530	4648	4767	4885	5004	5122	5240	5359
69	5477	5595	5714	5832	5951	6069	6187	6306	6424	6542
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71	7844	7962	8080	8199	8317	8435	8554	8672	8790	8908
72	565 9027	9145	9263	9382	9500	9618	9736	9855	9973	0091
73	0209	0328	0446	0564	0682	0800	0919	1037	1155	1273
74	1392	1510	1628	1746	1864	1983	2101	2219	2337	2455
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77	4936	5054	5173	5291	5409	5527	5645	5763	5881	5999
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79	7298	7416	7534	7652	7770	7888	8006	8124	8242	8360
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83	2017	2135	2253	2371	2489	2607	2725	2843	2960	3078
84	3196	3314	3432	3550	3668	3786	3903	4021	4139	4257
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86	5553	5671	5789	5907	6025	6142	6260	6378	6495	6614
87	6731	6849	6967	7085	7203	7320	7438	7556	7674	7791
88	7909	8027	8145	8262	8380	8498	8616	8733	8851	8969
89	567 9087	9204	9322	9440	9557	9675	9793	9911	0028	0146
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91	1440	1558	1676	1793	1911	2029	2146	2264	2382	2499
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93	3793	3911	4028	4146	4263	4381	4499	4616	4734	4851
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98	568 9669	9787	9904	0021	0139	0256	0374	0491	0608	0726
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02		4364	4481	4599	4716	4833	4951	5068	5185	5303	5420	
03		5537	5654	5772	5889	6006	6123	6241	6358	6475	6593	
04		6710	6827	6944	7062	7179	7296	7413	7530	7648	7765	
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08		1397	1514	1631	1749	1866	1983	2100	2217	2334	2451	
09		2568	2685	2803	2920	3037	3154	3271	3388	3505	3622	
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11		4910	5027	5144	5261	5378	5495	5612	5729	5846	5963	1 12
12		6080	6197	6314	6431	6548	6665	6782	6899	7016	7133	2 23
13		7249	7366	7483	7600	7717	7834	7951	8068	8185	8302	3 35
14		8419	8536	8653	8770	8887	9004	9121	9237	9354	9471	4 47
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16		0757	0874	0991	1108	1225	1341	1458	1575	1692	1809	6 70
17		1926	2042	2159	2276	2393	2510	2627	2743	2860	2977	7 82
18		3094	3211	3327	3444	3561	3678	3795	3911	4028	4145	8 94
19		4262	4379	4496	4612	4729	4846	4962	5079	5196	5313	9 105
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27		3594	3710	3827	3943	4060	4177	4293	4410	4526	4643	
28		4759	4876	4992	5109	5225	5341	5458	5574	5691	5807	
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66	8803	8918	9034	9149	9264	9380	9495	9610	9726	9841
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71	4565	4680	4796	4911	5026	5141	5256	5371	5487	5602
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73	6868	6983	7098	7213	7328	7444	7559	7674	7789	7904
74	8019	8134	8249	8364	8479	8594	8709	8824	8939	9055
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76	0320	0435	0550	0665	0780	0895	1010	1125	1240	1355
77	1470	1585	1700	1815	1930	2045	2160	2275	2390	2505
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79	3769	3884	3999	4114	4229	4343	4458	4573	4688	4803
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82	7215	7330	7445	7560	7675	7789	7904	8019	8134	8249
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87	2953	3068	3182	3297	3412	3526	3641	3756	3870	3985
88	4100	4214	4329	4444	4558	4673	4788	4902	5017	5131
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93	579 9828	9943	0057	0172	0286	0401	0515	0630	0744	0859
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07	5829	5943	6057	6171	6285	6399	6513	6627	6741	6855
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24		5179	5292	5406	5520	5633	5747	5860	5974	6087	6201
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28	583	9719	9833	9946	0060	0173	0287	0400	0513	0627	0740
29		0854	0967	1081	1194	1307	1421	1534	1648	1761	1874
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32		4255	4368	4482	4595	4708	4822	4935	5048	5162	5275
33		5388	5501	5615	5728	5841	5955	6068	6181	6295	6408
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37	584	9918	0031	0144	0258	0371	0484	0597	0710	0823	0937
38		1050	1163	1276	1389	1502	1615	1729	1842	1955	2068
39		2181	2294	2407	2520	2634	2747	2860	2973	3086	3199
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48		2351	2463	2576	2689	2802	2915	3028	3141	3253	3366
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52		6863	6976	7088	7201	7314	7426	7539	7652	7765	7877
53		7990	8103	8216	8328	8441	8554	8666	8779	8892	9004
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68		4865	4977	5089	5201	5314	5426	5538	5651	5763	5875
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08	592	9546	9657	9768	9879	9990	0101	0212	0323	0434	0546
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47	2671	2781	2891	3001	3111	3221	3331	3441	3551	3661
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67	4622	4731	4841	4950	5060	5169	5279	5388	5498	5607
68	5717	5826	5936	6045	6154	6264	6373	6483	6592	6702
69	6811	6920	7030	7139	7249	7358	7467	7577	7686	7796
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79	7739	7849	7958	8067	8176	8285	8394	8503	8612	8722
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18	604 0099	0207	0315	0424	0532	0640	0748	0856	0964	1072
19	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152
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66	1674	1781	1887	1994	2101	2208	2315	2421	2528	2635
67	2742	2849	2956	3062	3169	3276	3382	3489	3596	3703
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74	0210	0317	0423	0530	0637	0743	0850	0956	1063	1170
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79	5537	5644	5750	5856	5963	6069	6176	6282	6389	6495
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08	6304	6410	6516	6621	6727	6833	6939	7044	7150	7256
09	7361	7467	7573	7678	7784	7890	7996	8101	8207	8313
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11	614 9475	9580	9686	9792	9897	0003	0109	0214	0320	0425
12	0531	0637	0742	0848	0954	1059	1165	1270	1376	1482
13	1587	1693	1798	1904	2009	2115	2221	2326	2432	2537
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16	4754	4859	4965	5070	5176	5281	5387	5492	5598	5703
17	5809	5914	6020	6125	6231	6336	6442	6547	6652	6758
18	6863	6969	7074	7180	7285	7391	7496	7602	7707	7812
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83	4879	4982	5086	5190	5294	5398	5502	5605	5709	5813
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87	9030	9133	9237	9341	9444	9548	9652	9756	9859	9963
88	622 0067	0170	0274	0378	0482	0585	0689	0793	0896	1000
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92	4213	4316	4420	4524	4627	4731	4834	4938	5041	5145
93	5249	5352	5456	5559	5663	5766	5870	5974	6077	6181
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99	1459	1562	1666	1769	1872	1976	2079	2183	2286	2389
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07	9725	9828	9932	0035	0138	0241	0344	0448	0551	0654
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09	1789	1892	1996	2099	2202	2305	2408	2511	2615	2718
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17	625 0036	0139	0242	0345	0448	0551	0654	0757	0860	0963
18	1066	1169	1272	1375	1478	1581	1683	1786	1889	1992
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27	626 0322	0425	0528	0631	0733	0836	0939	0014	0117	0220
28	1360	1453	1555	1658	1761	1863	1966	1042	1144	1247
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34	7509	7611	7714	7816	7919	8021	8124	7201	7303	7406
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62	6134	6236	6338	6440	6542	6644	6746	6848	6950	7051
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97	1654	1755	1856	1957	2058	2159	2260	2361	2462	2563
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02	6704	6805	6906	7007	7108	7209	7310	7411	7512	7613
03	7713	7814	7915	8016	8117	8218	8319	8420	8521	8622
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4305	634 9732	9832	9933	0034	0135	0236	0337	0438	0539	0639
06	0740	0841	0942	1043	1144	1245	1345	1446	1547	1648
07	1749	1850	1950	2051	2152	2253	2354	2455	2555	2656
08	2757	2858	2959	3059	3160	3261	3362	3463	3563	3664
09	3765	3866	3967	4067	4168	4269	4370	4470	4571	4672
4310	4773	4873	4974	5075	5176	5276	5377	5478	5579	5679
11	5780	5881	5982	6082	6183	6284	6385	6485	6586	6687
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16	0814	0915	1016	1116	1217	1317	1418	1519	1619	1720
17	1820	1921	2022	2122	2223	2323	2424	2525	2625	2726
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19	3832	3933	4033	4134	4234	4335	4435	4536	4636	4737
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21	5843	5943	6044	6144	6245	6345	6446	6546	6647	6747
22	6848	6948	7049	7149	7250	7350	7450	7551	7651	7752
23	7852	7953	8053	8154	8254	8355	8455	8556	8656	8756
24	8857	8957	9058	9158	9259	9359	9459	9560	9660	9761
4325	636 9861	9962	0062	0162	0263	0363	0464	0564	0664	0765
26	0865	0966	1066	1166	1267	1367	1467	1568	1668	1769
27	1869	1969	2070	2170	2270	2371	2471	2571	2672	2772
28	2873	2973	3073	3174	3274	3374	3475	3575	3675	3776
29	3876	3976	4076	4177	4277	4377	4478	4578	4678	4779
4330	4879	4979	5080	5180	5280	5380	5481	5581	5681	5782
31	5882	5982	6082	6183	6283	6383	6483	6584	6684	6784
32	6884	6985	7085	7185	7285	7386	7486	7586	7686	7787
33	7887	7987	8087	8188	8288	8388	8488	8588	8689	8789
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4335	637 9891	9991	0091	0192	0292	0392	049	0592	0692	0793
36	0893	0993	1093	1193	1293	1394	1494	1594	1694	1794
37	1894	1994	2094	2195	2295	2395	2495	2595	2695	2795
38	2895	2996	3096	3196	3296	3396	3496	3596	3696	3796
39	3897	3997	4097	4197	4297	4397	4497	4597	4697	4797
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47	1896	1996	2096	2196	2296	2396	2496	2596	2696	2796
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49	3894	3994	4094	4194	4294	4393	4493	4593	4693	4793
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53	7887	7986	8086	8186	8286	8385	8485	8585	8685	8784
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56	0879	0978	1078	1178	1277	1377	1477	1577	1676	1776
57	1876	1975	2075	2175	2274	2374	2474	2573	2673	2773
58	2872	2972	3072	3171	3271	3371	3470	3570	3669	3769
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64		8847	8947	9046	9146	9245	9345	9444	9544	9643	9743
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72		6802	6901	7000	7100	7199	7298	7398	7497	7596	7695
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76		0773	0872	0972	1071	1170	1269	1369	1468	1567	1666
77		1765	1865	1964	2063	2162	2262	2361	2460	2559	2658
78		2758	2857	2956	3055	3154	3254	3353	3452	3551	3650
79		3749	3849	3948	4047	4146	4245	4344	4444	4543	4642
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81		5733	5832	5931	6030	6129	6228	6327	6426	6526	6625
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83		7715	7814	7913	8012	8111	8210	8309	8408	8507	8606
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87		1676	1775	1874	1973	2072	2171	2270	2369	2468	2567
88		2666	2765	2864	2963	3062	3161	3260	3359	3458	3557
89		3656	3755	3854	3953	4052	4151	4249	4348	4447	4546
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92		6623	6722	6821	6920	7019	7118	7217	7315	7414	7513
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02		6500	6599	6698	6796	6895	6994	7092	7191	7290	7388
03		7487	7585	7684	7783	7881	7980	8079	8177	8276	8374
04		8473	8572	8670	8769	8868	8966	9065	9163	9262	9361
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11		5371	5469	5567	5666	5764	5863	5961	6060	6158	6257
12		6355	6453	6552	6650	6749	6847	6946	7044	7142	7241
13		7339	7438	7536	7635	7733	7831	7930	8028	8127	8225
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17		1274	1372	1471	1569	1667	1766	1864	1962	2061	2159
18		2257	2355	2454	2552	2650	2749	2847	2945	3043	3142
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22		6187	6286	6384	6482	6580	6678	6777	6875	6973	7071
23		7169	7268	7366	7464	7562	7660	7758	7857	7955	8053
24		8151	8249	8348	8446	8544	8642	8740	8838	8936	9035
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27		1095	1193	1291	1390	1488	1586	1684	1782	1880	1978
28		2076	2174	2272	2370	2468	2566	2665	2763	2861	2959
29		3057	3155	3253	3351	3449	3547	3645	3743	3841	3939
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31		5018	5116	5214	5312	5410	5508	5606	5704	5802	5900
32		5998	6096	6193	6291	6389	6487	6585	6683	6781	6879
33		6977	7075	7173	7271	7369	7467	7565	7663	7761	7859
34		7957	8055	8153	8251	8349	8447	8545	8642	8740	8838
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37	647	0894	0992	1090	1188	1286	1384	1482	1579	1677	1775
38		1873	1971	2069	2167	2264	2362	2460	2558	2656	2754
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41		4808	4906	5003	5101	5199	5297	5394	5492	5590	5688
42		5786	5883	5981	6079	6177	6274	6372	6470	6568	6665
43		6763	6861	6959	7056	7154	7252	7350	7447	7545	7643
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47	648	0671	0769	0867	0964	1062	1160	1257	1355	1453	1550
48		1648	1745	1843	1941	2038	2136	2234	2331	2429	2526
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51		4576	4674	4771	4869	4966	5064	5161	5259	5356	5454
52		5552	5649	5747	5844	5942	6039	6137	6234	6332	6429
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56		9452	9549	9647	9744	9842	9939	0037	0134	0231	0329
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58		1401	1498	1595	1693	1790	1888	1985	2083	2180	2277
59		2375	2472	2570	2667	2764	2862	2959	3056	3154	3251
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61		4322	4420	4517	4614	4712	4809	4906	5004	5101	5198
62		5296	5393	5490	5588	5685	5782	5880	5977	6074	6172
63		6269	6366	6463	6561	6658	6756	6853	6950	7047	7145
64		7242	7339	7436	7534	7631	7728	7826	7923	8020	8117
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66		9187	9284	9382	9479	9576	9673	9771	9868	9965	0062
67	650	0160	0257	0354	0451	0548	0646	0743	0840	0937	1034
68		1132	1229	1326	1423	1520	1618	1715	1812	1909	2006
69		2104	2201	2298	2395	2492	2589	2687	2784	2881	2978
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72		5018	5115	5212	5309	5406	5503	5601	5698	5795	5892
73		5989	6086	6183	6280	6377	6474	6571	6669	6766	6863
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82	4719	4815	4912	5009	5106	5203	5300	5397	5494	5591
83	5687	5784	5881	5978	6075	6172	6269	6365	6462	6559
84	6656	6753	6850	6947	7043	7140	7237	7334	7431	7528
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86	8593	8690	8786	8883	8980	9077	9174	9270	9367	9464
87	652 9561	9657	9754	9851	9948	0045	0141	0238	0335	0432
88	0528	0625	0722	0819	0916	1012	1109	1206	1303	1399
89	1496	1593	1690	1786	1883	1980	2076	2173	2270	2367
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92	4397	4494	4591	4688	4784	4881	4978	5074	5171	5268
93	5364	5461	5558	5654	5751	5847	5944	6041	6137	6234
94	6331	6427	6524	6621	6717	6814	6910	7007	7104	7200
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96	8263	8360	8456	8553	8649	8746	8843	8939	9036	9132
97	653 9229	9325	9422	9519	9615	9712	9808	9905	0001	0098
98	0195	0291	0388	0484	0581	0677	0774	0870	0967	1063
99	1160	1256	1353	1450	1546	1643	1739	1836	1932	2029
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02	4055	4151	4248	4344	4441	4537	4634	4730	4827	4923
03	5019	5116	5212	5309	5405	5502	5598	5695	5791	5887
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07	8876	8972	9068	9165	9261	9357	9454	9550	9646	9743
08	654 9839	9935	0032	0128	0224	0321	0417	0513	0610	0706
09	0802	0899	0995	1091	1188	1284	1380	1477	1573	1669
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11	2728	2825	2921	3017	3113	3210	3306	3402	3498	3595
12	3691	3787	3883	3980	4076	4172	4268	4365	4461	4557
13	4653	4750	4846	4942	5038	5134	5231	5327	5423	5519
14	5616	5712	5808	5904	6000	6097	6193	6289	6385	6481
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16	7539	7636	7732	7828	7924	8020	8116	8212	8309	8405
17	8501	8597	8693	8789	8885	8982	9078	9174	9270	9366
18	655 9462	9558	9655	9751	9847	9943	0039	0135	0231	0327
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21	2345	2441	2537	2633	2729	2825	2921	3017	3113	3210
22	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170
23	4266	4362	4458	4554	4650	4746	4842	4938	5034	5130
24	5226	5322	5418	5514	5610	5706	5802	5898	5994	6090
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26	7145	7241	7337	7433	7529	7625	7721	7817	7913	8009
27	8105	8201	8297	8393	8489	8585	8681	8776	8872	8968
28	9064	9160	9256	9352	9448	9544	9640	9736	9831	9927
29	656 0023	0119	0215	0311	0407	1503	0599	0694	0790	0886
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33	3857	3953	4049	4145	4240	4336	4432	4528	4624	4719
34	4815	4911	5007	5103	5198	5294	5390	5486	5581	5677
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38	8645	8741	8836	8932	9028	9123	9219	9315	9410	9506
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46	6294	6390	6485	6581	6676	6772	6867	6963	7059	7154
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62	1553	1648	1743	1838	1934	2029	2124	2219	2314	2410
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67	6310	6405	6500	6595	6690	6786	6881	6976	7071	7166
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73	2012	2107	2202	2297	2392	2487	2582	2677	2772	2867
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88	6234	6329	6423	6518	6613	6707	6802	6897	6991	7086
89	7181	7275	7370	7464	7559	7654	7748	7843	7938	8032
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91	9073	9168	9262	9357	9451	9546	9640	9735	9830	9924
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93	0964	1059	1154	1248	1343	1437	1532	1626	1721	1815
94	1910	2004	2099	2194	2288	2383	2477	2572	2666	2761
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02	9466	9561	9655	9749	9844	9938	0032	0127	0221	0315
03	663 0410	0504	0598	0693	0787	0881	0976	1070	1164	1259
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06	3239	3334	3428	3522	3616	3711	3805	3899	3994	4088
07	4182	4276	4371	4465	4559	4653	4748	4842	4936	5030
08	5125	5219	5313	5407	5502	5596	5690	5784	5879	5973
09	6067	6161	6256	6350	6444	6538	6632	6727	6821	6915
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12	8893	8987	9081	9175	9270	9364	9458	9552	9646	9740
13	9835	9929	0023	0117	0211	0305	0399	0494	0588	0682
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23	665 9239	9333	9427	9521	9615	9709	9803	9896	9990	0084
24	0178	0272	0366	0460	0554	0648	0742	0836	0930	1023
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37	2371	2465	2558	2652	2746	2839	2933	3027	3120	3214
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58	1995	2088	2181	2275	2368	2461	2554	2647	2741	2834
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83	5242	5334	5427	5520	5613	5705	5798	5891	5983	6076
84	6169	6262	6354	6447	6540	6632	6725	6818	6911	7003
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87	8950	9042	9135	9228	9320	9413	9505	9598	9691	9783
88	671 9876	9969		0061	0154	0247	0339	0432	0524	0617	0710
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4705	5596	5689	5781	5873	5965	6058	6150	6242	6335	6427
06	6519	6612	6704	6796	6888	6981	7073	7165	7257	7350
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08	8365	8457	8549	8641	8734	8826	8918	9010	9102	9195
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11	1131	1223	1315	1408	1500	1592	1684	1776	1868	1961
12	2053	2145	2237	2329	2421	2514	2606	2698	2790	2882
13	2974	3067	3159	3251	3343	3435	3527	3619	3712	3804
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16	5738	5830	5922	6014	6106	6198	6290	6383	6475	6567
17	6659	6751	6843	6935	7027	7119	7211	7303	7395	7487
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28		6775	6867	6958	7050	7142	7234	7326	7418	7509	7601
29		7693	7785	7877	7969	8060	8152	8244	8336	8428	8520
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32		0447	0539	0631	0723	0814	0906	0998	1090	1182	1273
33		1365	1457	1549	1640	1732	1824	1916	2007	2099	2191
34		2283	2374	2466	2558	2649	2741	2833	2925	3016	3108
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36		4117	4209	4300	4392	4484	4576	4667	4759	4850	4942
37		5034	5126	5217	5309	5401	5492	5584	5676	5767	5859
38		5951	6042	6134	6226	6317	6409	6501	6592	6684	6776
39		6867	6959	7050	7142	7234	7325	7417	7509	7600	7692
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41		8700	8791	8883	8974	9066	9158	9249	9341	9432	9524
42	676	9615	9707	9799	9890	9982	0073	0165	0257	0348	0440
43		0531	0623	0714	0806	0897	0989	1081	1172	1264	1355
44		1447	1538	1630	1721	1813	1905	1996	2088	2179	2271
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46		3277	3369	3460	3552	3643	3736	3826	3918	4009	4101
47		4192	4284	4375	4467	4558	4650	4741	4833	4924	5016
48		5107	5199	5290	5382	5473	5564	5656	5747	5839	5930
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51		7850	7942	8033	8125	8216	8307	8399	8490	8582	8673
52		8764	8856	8947	9038	9130	9221	9313	9404	9496	9587
53	677	9678	9770	9861	9952	0044	0135	0226	0318	0409	0500
54		0592	0683	0774	0866	0957	1049	1140	1231	1323	1414
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56		2418	2510	2601	2692	2784	2875	2966	3058	3149	3240
57		3332	3423	3514	3605	3697	3788	3879	3971	4062	4153
58		4244	4336	4427	4518	4609	4701	4792	4883	4975	5066
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63		8806	8897	8988	9079	9171	9262	9353	9444	9535	9626
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67		2452	2543	2634	2725	2816	2907	2998	3089	3180	3271
68		3362	3454	3545	3636	3727	3818	3909	4000	4091	4182
69		4273	4364	4455	4546	4637	4729	4820	4911	5002	5093
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71		6094	6185	6276	6367	6458	6549	6640	6731	6822	6913
72		7004	7095	7186	7277	7368	7459	7550	7641	7732	7823
73		7914	8005	8096	8187	8278	8369	8460	8551	8642	8733
74		8824	8915	9006	9097	9188	9279	9370	9461	9552	9643
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76		0643	0734	0825	0916	1007	1098	1189	1280	1371	1461
77		1552	1643	1734	1825	1916	2007	2098	2189	2280	2371
78		2461	2552	2643	2734	2825	2916	3007	3098	3189	3279
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83	7004	7095	7185	7276	7367	7458	7549	7639	7730	7821
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86	680 9727	9818	9908	9999	0090	0181	0271	0362	0453	0544
87	0634	0725	0816	0906	0997	1088	1179	1269	1360	1451
88	1541	1632	1723	1814	1904	1995	2086	2176	2267	2358
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93	6074	6165	6256	6346	6437	6527	6618	6709	6799	6890
94	6980	7071	7161	7252	7343	7433	7524	7614	7706	7796
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96	8792	8882	8973	9063	9154	9244	9335	9426	9516	9607
97	681 9697	9788	9878	9969	0059	0150	0240	0331	0421	0512
98	0602	0693	0783	0874	0964	1055	1145	1236	1327	1417
99	1507	1598	1688	1779	1869	1960	2050	2141	2231	2322
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02	4222	4312	4402	4493	4583	4674	4764	4855	4945	5035
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07	8741	8832	8922	9012	9103	9193	9283	9374	9464	9554
08	682 9645	9736	9826	9916	0006	0096	0187	0277	0367	0457
09	0548	0638	0728	0819	0909	0999	1090	1180	1270	1360
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12	3256	3346	3437	3527	3617	3707	3798	3888	3978	4068
13	4159	4249	4339	4429	4520	4610	4700	4790	4880	4971
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16	6865	6955	7045	7135	7225	7316	7406	7496	7586	7676
17	7766	7857	7947	8037	8127	8217	8307	8398	8488	8578
18	8668	8758	8848	8938	9029	9119	9209	9299	9389	9479
19	683 9569	9659	9750	9840	9930	0020	0110	0200	0290	0380
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21	1371	1461	1551	1642	1732	1822	1912	2002	2092	2182
22	2272	2362	2452	2542	2632	2722	2812	2902	2993	3083
23	3173	3263	3353	3443	3533	3623	3713	3803	3893	3983
24	4073	4163	4253	4343	4433	4523	4613	4703	4793	4883
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26	5873	5963	6053	6143	6233	6323	6413	6503	6593	6683
27	6773	6863	6953	7043	7133	7223	7313	7403	7493	7583
28	7673	7763	7853	7942	8032	8122	8212	8302	8392	8482
29	8572	8662	8752	8842	8932	9022	9112	9202	9291	9381
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32	1269	1359	1449	1539	1629	1719	1808	1898	1988	2078
33	2168	2258	2348	2438	2527	2617	2707	2797	2887	2977
34	3066	3156	3246	3336	3426	3516	3605	3695	3785	3875
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36	4863	4953	5043	5132	5222	5312	5402	5492	5581	5671
37	5761	5851	5940	6030	6120	6210	6300	6389	6479	6569
38	6659	6748	6838	6928	7018	7107	7197	7287	7377	7466
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41	685 9361	9441	9530	9620	9710	9799	9889	9979	0068	0158
42	0248	0338	0427	0517	0607	0696	0786	0876	0965	1055
43	1145	1234	1324	1414	1503	1593	1683	1772	1862	1952
44	2041	2131	2221	2310	2400	2490	2579	2669	2759	2848
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46	3834	3924	4013	4103	4193	4282	4372	4461	4551	4641
47	4730	4820	4909	4999	5089	5178	5268	5357	5447	5537
48	5626	5716	5805	5895	5984	6074	6164	6253	6343	6432
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52	686 9208	9297	9387	9476	9566	9655	9745	9834	9924	0013
53	0103	0192	0282	0371	0461	0550	0640	0729	0819	0908
54	0998	1087	1177	1266	1356	1445	1535	1624	1713	1803
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66	1721	1810	1900	1989	2078	2167	2257	2346	2436	2524
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68	3506	3595	3684	3773	3863	3952	4041	4130	4219	4309
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73	7964	8053	8142	8231	8321	8410	8499	8588	8677	8766
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77	1528	1617	1706	1795	1884	1973	2062	2151	2240	2329
78	2418	2507	2596	2685	2774	2863	2952	3041	3130	3219
79	3308	3397	3486	3575	3664	3753	3842	3931	4020	4109
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84	7757	7845	7934	8023	8112	8201	8290	8379	8468	8557
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87	0423	0512	0601	0690	0779	0868	0957	1045	1134	1223
88	1312	1401	1490	1579	1667	1756	1845	1934	2023	2112
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91	3977	4065	4154	4243	4332	4421	4509	4598	4687	4776
92	4864	4953	5042	5131	5220	5308	5397	5486	5575	5663
93	5752	5841	5930	6018	6107	6196	6285	6373	6462	6551
94	6640	6728	6817	6906	6995	7083	7172	7261	7350	7438
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97	690 9301	9390	9478	9567	9656	9744	9833	9922	0010	0099
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03	4619	4708	4796	4885	4973	5062	5150	5239	5327	5416
04	5505	5593	5682	5770	5859	5947	6036	6124	6213	6302
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07	8161	8249	8338	8426	8515	8603	8692	8780	8869	8957
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09	691 9930	0019	0107	0196	0284	0373	0461	0550	0638	0726
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12	2584	2672	2760	2849	2937	3026	3114	3202	3291	3379
13	3468	3556	3644	3733	3821	3910	3998	4086	4175	4263
14	4352	4440	4528	4617	4705	4793	4882	4970	5058	5147
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17	7002	7090	7179	7267	7355	7444	7532	7620	7709	7797
18	7885	7974	8062	8150	8238	8327	8415	8503	8592	8680
19	8768	8857	8945	9033	9121	9210	9298	9386	9474	9563
4920	692 9651	9739	9828	9916	0004	0092	0181	0269	0357	0445
21	0534	0622	0710	0798	0887	0975	1063	1151	1240	1328
22	1416	1504	1593	1681	1769	1857	1945	2034	2122	2210
23	2298	2387	2475	2563	2651	2739	2828	2916	3004	3092
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26	4944	5032	5120	5209	5297	5385	5473	5561	5649	5737
27	5826	5914	6002	6090	6178	6266	6354	6443	6531	6619
28	6707	6795	6883	6971	7059	7148	7236	7324	7412	7500
29	7588	7676	7764	7853	7941	8029	8117	8205	8293	8381
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31	693 9350	9438	9526	9614	9702	9790	9878	9967	0055	0143
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33	1111	1199	1287	1375	1463	1551	1639	1727	1815	1903
34	1991	2079	2167	2256	2344	2432	2520	2608	2696	2784
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36	3752	3839	3927	4015	4103	4191	4279	4367	4455	4543
37	4631	4719	4807	4895	4983	5071	5159	5247	5335	5423
38	5511	5599	5687	5775	5863	5951	6039	6126	6214	6302
39	6390	6478	6566	6654	6742	6830	6918	7006	7094	7182
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43	694 9906	9994	0082	0170	0258	0345	0433	0521	0609	0697
44	0785	0872	0960	1048	1136	1224	1312	1399	1487	1575
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46	2541	2629	2717	2805	2892	2980	3068	3156	3244	3331
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51	6929	7017	7105	7192	7280	7368	7456	7543	7631	7719
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56	1313	1401	1488	1576	1663	1751	1839	1926	2014	2102
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62	6568	6655	6743	6830	6918	7005	7093	7180	7268	7355
63	7443	7530	7618	7705	7793	7880	7968	8055	8143	8230
64	8318	8405	8493	8580	8668	8755	8843	8930	9018	9105
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66	696 0067	0155	0242	0330	0417	0504	0592	0679	0767	0854
67	0942	1029	1116	1204	1291	1379	1466	1554	1641	1728
68	1816	1903	1991	2078	2166	2253	2340	2428	2515	2603
69	2690	2777	2865	2952	3040	3127	3214	3302	3389	3477
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71	4438	4525	4612	4700	4787	4874	4962	5049	5137	5224
72	5311	5399	5486	5573	5661	5748	5835	5923	6010	6097
73	6185	6272	6359	6447	6534	6621	6709	6796	6883	6970
74	7058	7145	7232	7320	7407	7494	7582	7669	7756	7844
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76	8804	8891	8978	9066	9153	9240	9327	9415	9502	9589
77	697 9676	9764	9851	9938	0025	0113	0200	0287	0374	0462
78	0549	0636	0723	0811	0898	0985	1072	1160	1247	1334
79	1421	1508	1596	1683	1770	1857	1945	2032	2119	2206
4980	2293	2381	2468	2555	2642	2729	2817	2904	2991	3078
81	3165	3253	3340	3427	3514	3601	3689	3776	3863	3950
82	4037	4124	4212	4299	4386	4473	4560	4647	4735	4822
83	4909	4996	5083	5170	5257	5345	5432	5519	5606	5693
84	5780	5867	5955	6042	6129	6216	6303	6390	6477	6565
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86	7523	7610	7697	7784	7871	7958	8045	8132	8220	8307
87	8394	8481	8568	8655	8742	8829	8916	9003	9090	9177
88	9264	9352	9439	9526	9613	9700	9787	9874	9961	0048
89	698 0135	0222	0309	0396	0483	0570	0657	0744	0831	0918
4990	1005	1092	1180	1267	1354	1441	1528	1615	1702	1789
91	1876	1963	2050	2137	2224	2311	2398	2485	2572	2659
92	2746	2833	2920	3007	3094	3181	3268	3355	3442	3529
93	3616	3703	3790	3877	3964	4051	4138	4224	4311	4398
94	4485	4572	4659	4746	4833	4920	5007	5094	5181	5268
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96	6224	6311	6398	6485	6572	6659	6746	6833	6920	7007
97	7093	7180	7267	7354	7441	7528	7615	7702	7789	7876
98	7963	8049	8136	8223	8310	8397	8484	8571	8658	8744
99	8831	8918	9005	9092	9179	9266	9353	9439	9526	9613
5000	699 9700	9787	9874	9961	0047	0134	0221	0308	0395	0482
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02	1437	1524	1611	1697	1784	1871	1958	2045	2131	2218
03	2305	2392	2479	2565	2652	2739	2826	2913	2999	3086
04	3173	3260	3347	3433	3520	3607	3694	3780	3867	3954
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06	4908	4995	5082	5169	5255	5342	5429	5516	5602	5689
07	5776	5863	5949	6036	6123	6210	6296	6383	6470	6556
08	6643	6730	6817	6903	6990	7077	7163	7250	7337	7424
09	7510	7597	7684	7770	7857	7944	8031	8117	8204	8291
5010	8377	8464	8551	8637	8724	8811	8897	8984	9071	9157
11	700 9244	9331	9417	9504	9591	9677	9764	9851	9937	0024
12	0111	0197	0284	0371	0457	0544	0630	0717	0804	0890
13	0977	1064	1150	1237	1324	1410	1497	1583	1670	1757
14	1843	1930	2017	2103	2190	2276	2363	2450	2536	2623
5015	2709	2796	2883	2969	3056	3142	3229	3316	3402	3489
16	3575	3662	3748	3835	3922	4008	4095	4181	4268	4354
17	4441	4528	4614	4701	4787	4874	4960	5047	5133	5220
18	5307	5393	5480	5566	5653	5739	5826	5912	5999	6085
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22	8767	8854	8940	9027	9113	9199	9286	9372	9459	9545
23	701 9632	9718	9805	9891	9978	0064	0151	0237	0323	0410
24	0496	0583	0669	0756	0842	0929	1015	1101	1188	1274
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26	2225	2311	2398	2484	2570	2657	2743	2830	2916	3002
27	3089	3175	3262	3348	3434	3521	3607	3694	3780	3866
28	3953	4039	4125	4212	4298	4385	4471	4557	4644	4730
29	4816	4903	4989	5075	5162	5248	5334	5421	5507	5594
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31	6543	6629	6716	6802	6888	6975	7061	7147	7234	7320
32	7406	7493	7579	7665	7752	7838	7924	8010	8097	8183
33	8269	8356	8442	8528	8614	8701	8787	8873	8960	9046
34	9132	9218	9305	9391	9477	9563	9650	9736	9822	9908
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36	0857	0943	1030	1116	1202	1288	1375	1461	1547	1633
37	1720	1806	1892	1978	2064	2151	2237	2323	2409	2495
38	2582	2668	2754	2840	2926	3013	3099	3185	3271	3357
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41	5167	5253	5339	5425	5512	5598	5684	5770	5856	5942
42	6028	6115	6201	6287	6373	6459	6545	6631	6717	6804
43	6890	6976	7062	7148	7234	7320	7406	7492	7579	7665
44	7751	7837	7923	8009	8095	8181	8267	8353	8440	8526
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46	703 9472	9559	9645	9731	9817	9903	9989	0075	0161	0247
47	0333	0419	0505	0591	0677	0763	0849	0935	1021	1107
48	1193	1279	1365	1452	1538	1624	1710	1796	1882	1968
49	2054	2140	2226	2312	2398	2484	2570	2656	2742	2828
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53	5493	5579	5665	5751	5837	5923	6009	6095	6181	6266
54	6352	6438	6524	6610	6696	6782	6868	6954	7040	7126
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57	8930	9015	9101	9187	9273	9359	9445	9531	9617	9702
58	704 9788	9874	9960	0046	0132	0218	0303	0389	0475	0561
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62	3221	3307	3393	3479	3565	3650	3736	3822	3908	3993
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66	6652	6738	6823	6909	6995	7080	7166	7252	7338	7423
67	7509	7595	7680	7766	7852	7938	8023	8109	8195	8280
68	8366	8452	8537	8623	8709	8795	8880	8966	9052	9137
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71	0936	1022	1107	1193	1279	1364	1450	1536	1621	1707
72	1792	1878	1964	2049	2135	2221	2306	2392	2477	2563
73	2649	2734	2820	2906	2991	3077	3162	3248	3333	3419
74	3505	3590	3676	3761	3847	3933	4018	4104	4189	4276
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76	5216	5302	5387	5473	5558	5644	5729	5815	5901	5986
77	6072	6157	6243	6328	6414	6499	6585	6670	6756	6841
78	6927	7012	7098	7184	7269	7355	7440	7526	7611	7697
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83		1201	1287	1372	1457	1543	1628	1714	1799	1885	1970
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86		3764	3849	3934	4020	4105	4190	4276	4361	4447	4532
87		4617	4703	4788	4873	4959	5044	5130	5215	5300	5386
88		5471	5556	5642	5727	5812	5898	5983	6068	6154	6239
89		6325	6410	6495	6581	6666	6751	6837	6922	7007	7092
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91		8031	8116	8202	8287	8372	8457	8543	8628	8713	8799
92		8884	8969	9055	9140	9225	9310	9396	9481	9566	9651
93	707	9737	9822	9907	9993	0078	0163	0248	0334	0419	0504
94		0589	0675	0760	0845	0930	1016	1101	1186	1271	1357
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96		2294	2379	2465	2550	2635	2720	2806	2891	2976	3061
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98		3998	4083	4169	4254	4339	4424	4509	4595	4680	4765
99		4850	4936	5020	5106	5191	5276	5361	5446	5531	5617
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01		6553	6638	6724	6809	6894	6979	7064	7149	7234	7319
02		7405	7490	7575	7660	7745	7830	7915	8000	8085	8171
03		8256	8341	8426	8511	8596	8681	8766	8851	8936	9022
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06		0808	0893	0978	1063	1148	1233	1318	1403	1488	1574
07		1659	1744	1829	1914	1999	2084	2169	2254	2339	2424
08		2509	2594	2679	2764	2849	2934	3019	3104	3189	3274
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11		5059	5144	5229	5314	5399	5484	5569	5654	5739	5823
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17		0154	0239	0324	0409	0494	0579	0663	0748	0833	0918
18		1003	1088	1173	1257	1342	1427	1512	1597	1682	1766
19		1851	1936	2021	2106	2191	2275	2360	2445	2530	2615
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21		3548	3633	3717	3802	3887	3972	4057	4141	4226	4311
22		4396	4481	4565	4650	4735	4820	4904	4989	5074	5159
23		5244	5328	5413	5498	5583	5667	5752	5837	5922	6006
24		6091	6176	6261	6345	6430	6515	6600	6684	6769	6854
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31		2020	2105	2189	2274	2359	2443	2528	2613	2697	2782
32		2866	2951	3036	3120	3205	3290	3374	3459	3543	3628
33		3713	3797	3882	3966	4051	4136	4220	4305	4389	4474
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38		7941	8026	8110	8195	8279	8364	8448	8533	8617	8702
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42	1321	1405	1490	1574	1659	1743	1827	1912	1996	2081
43	2165	2250	2334	2419	2503	2587	2672	2756	2841	2925
44	3010	3094	3178	3263	3347	3432	3516	3601	3685	3769
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46	4698	4782	4867	4951	5035	5120	5204	5289	5373	5457
47	5542	5626	5710	5795	5879	5964	6048	6132	6217	6301
48	6385	6470	6554	6638	6723	6807	6892	6976	7060	7145
49	7229	7313	7398	7482	7566	7651	7735	7819	7904	7988
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51	8915	9000	9084	9168	9253	9337	9421	9506	9590	9674
52	712 9759	9843	9927	0011	0096	0180	0264	0349	0433	0517
53	0601	0686	0770	0854	0939	1023	1107	1191	1276	1360
54	1444	1528	1613	1697	1781	1865	1950	2034	2118	2202
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56	3129	3213	3298	3382	3466	3550	3634	3719	3803	3887
57	3971	4056	4140	4224	4308	4392	4477	4561	4645	4729
58	4813	4898	4982	5066	5150	5234	5319	5403	5487	5571
59	5655	5739	5824	5908	5992	6076	6160	6245	6329	6413
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62	8180	8264	8348	8432	8517	8601	8685	8769	8853	8937
63	9021	9105	9189	9274	9358	9442	9526	9610	9694	9778
64	713 9862	9946	0031	0115	0199	0283	0367	0451	0535	0619
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67	2385	2469	2553	2637	2721	2805	2889	2973	3057	3141
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69	4065	4149	4233	4317	4401	4485	4569	4653	4737	4821
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71	5745	5829	5913	5997	6081	6165	6249	6333	6417	6501
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76	714 9943	0027	0110	0194	0278	0362	0446	0530	0614	0698
77	0782	0866	0949	1033	1117	1201	1285	1369	1453	1537
78	1620	1704	1788	1872	1956	2040	2124	2208	2291	2375
79	2459	2543	2627	2711	2795	2878	2962	3046	3130	3214
5180	3298	3381	3465	3549	3633	3717	3801	3884	3968	4052
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82	4974	5058	5142	5226	5309	5393	5477	5561	5645	5728
83	5812	5896	5980	6063	6147	6231	6315	6399	6482	6566
84	6650	6734	6817	6901	6985	7069	7153	7236	7320	7404
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86	8325	8409	8493	8576	8660	8744	8828	8911	8995	9079
87	9162	9246	9330	9414	9497	9581	9665	9749	9832	9916
88	715 0000	0083	0167	0251	0335	0418	0502	0586	0669	0753
89	0837	0920	1004	1088	1171	1255	1339	1423	1506	1590
5190	1674	1757	1841	1925	2008	2092	2176	2259	2343	2427
91	2510	2594	2678	2761	2845	2929	3012	3096	3180	3263
92	3347	3430	3514	3598	3681	3765	3849	3932	4016	4100
93	4183	4267	4350	4434	4518	4601	4685	4769	4852	4936
94	5019	5103	5187	5270	5354	5438	5521	5605	5688	5772
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96	6691	6775	6859	6942	7026	7109	7193	7276	7360	7444
97	7527	7611	7694	7778	7861	7945	8029	8112	8196	8279
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03	2538	2622	2705	2789	2872	2956	3039	3123	3206	3289
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06	5042	5125	5208	5292	5375	5459	5542	5626	5709	5792
07	5876	5959	6043	6126	6209	6293	6376	6460	6543	6626
08	6710	6793	6877	6960	7043	7127	7210	7293	7377	7460
09	7544	7627	7710	7794	7877	7960	8044	8127	8211	8294
510	8377	8461	8544	8627	8711	8794	8877	8961	9044	9127
11	9211	9294	9377	9461	9544	9627	9711	9794	9877	9961
* 12	717 0044	0127	0211	0294	0377	0461	0544	0627	0711	0794
13	0877	0961	1044	1127	1210	1294	1377	1460	1544	1627
14	1710	1794	1877	1960	2043	2127	2210	2293	2377	2460
515	2543	2626	2710	2793	2876	2959	3043	3126	3209	3293
16	3376	3459	3542	3626	3709	3792	3875	3959	4042	4125
17	4208	4292	4375	4458	4541	4625	4708	4791	4874	4958
18	5041	5124	5207	5290	5374	5457	5540	5623	5707	5790
19	5873	5956	6039	6123	6206	6289	6372	6455	6539	6622
520	6705	6788	6871	6955	7038	7121	7204	7287	7371	7454
21	7537	7620	7703	7786	7870	7953	8036	8119	8202	8286
22	8369	8452	8535	8618	8701	8784	8868	8951	9034	9117
23	9200	9283	9367	9450	9533	9616	9699	9782	9865	9949
24	718 0032	0115	0198	0281	0364	0447	0530	0614	0697	0780
525	0863	0946	1029	1112	1195	1279	1362	1445	1528	1611
26	1694	1777	1860	1943	2026	2110	2193	2276	2359	2442
27	2525	2608	2691	2774	2857	2940	3023	3107	3190	3273
28	3356	3439	3522	3605	3688	3771	3854	3937	4020	4103
29	4186	4269	4353	4436	4519	4602	4685	4768	4851	4934
530	5017	5100	5183	5266	5349	5432	5515	5598	5681	5764
31	5847	5930	6013	6096	6179	6262	6345	6428	6511	6594
32	6677	6760	6843	6926	7009	7092	7175	7258	7341	7424
33	7507	7590	7673	7756	7839	7922	8005	8088	8171	8254
34	8337	8420	8503	8586	8669	8752	8835	8918	9001	9084
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36	719 9996	0079	0162	0245	0328	0411	0494	0577	0660	0743
37	0826	0909	0992	1075	1157	1240	1323	1406	1489	1572
38	1655	1738	1821	1904	1987	2069	2152	2235	2318	2401
39	2484	2567	2650	2733	2816	2898	2981	3064	3147	3230
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42	4970	5053	5136	5219	5302	5384	5467	5550	5633	5716
43	5799	5881	5964	6047	6130	6213	6296	6378	6461	6544
44	6627	6710	6792	6875	6958	7041	7124	7207	7289	7372
545	7455	7538	7621	7703	7786	7869	7952	8034	8117	8200
46	8283	8366	8448	8531	8614	8697	8780	8862	8945	9028
47	9111	9193	9276	9359	9442	9524	9607	9690	9773	9856
48	720 9938	0021	0104	0187	0269	0352	0435	0518	0600	0683
49	0766	0848	0931	1014	1097	1179	1262	1345	1428	1510
550	1593	1676	1758	1841	1924	2007	2089	2172	2255	2337
51	2420	2503	2585	2668	2751	2834	2916	2999	3082	3164
52	3247	3330	3413	3495	3578	3661	3743	3826	3909	3991
53	4074	4157	4239	4322	4405	4487	4570	4653	4735	4818
54	4901	4983	5066	5149	5231	5314	5397	5479	5562	5645
555	5727	5810	5892	5975	6058	6140	6223	6306	6388	6471
56	6554	6636	6719	6801	6884	6967	7049	7132	7215	7297
57	7380	7462	7545	7628	7710	7793	7875	7958	8041	8123
58	8206	8288	8371	8454	8536	8619	8701	8784	8867	8949
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62	1508	1591	1674	1756	1839	1921	2004	2086	2169	2251
63	2334	2416	2499	2581	2664	2746	2829	2911	2994	3076
64	3159	3241	3324	3406	3489	3571	3654	3736	3819	3901
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66	4809	4891	4973	5056	5138	5221	5303	5386	5468	5551
67	5633	5716	5798	5881	5963	6045	6128	6210	6293	6375
68	6458	6540	6623	6705	6787	6870	6952	7035	7117	7200
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71	8930	9013	9095	9177	9260	9342	9424	9507	9589	9672
72	9754	9836	9919	0001	0084	0166	0248	0331	0413	0495
73	722 0578	0660	0742	0825	0907	0990	1072	1154	1237	1319
74	1401	1484	1566	1648	1731	1813	1895	1978	2060	2142
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77	3871	3953	4036	4118	4200	4282	4365	4447	4529	4612
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82	7984	8066	8148	8231	8313	8395	8477	8559	8642	8724
83	8806	8888	8971	9053	9135	9217	9299	9382	9464	9546
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86	1272	1354	1436	1518	1600	1682	1765	1847	1929	2011
87	2093	2175	2257	2340	2422	2504	2586	2668	2750	2832
88	2914	2997	3079	3161	3243	3325	3407	3489	3571	3654
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92	6198	6280	6362	6445	6527	6609	6691	6773	6855	6937
93	7019	7101	7183	7265	7347	7429	7511	7593	7675	7757
94	7839	7921	8003	8085	8167	8250	8332	8414	8496	8578
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96	724 9480	9562	9644	9726	9808	9890	9972	0054	0136	0218
97	0300	0382	0464	0546	0628	0710	0792	0874	0956	1038
98	1120	1202	1283	1365	1447	1529	1611	1693	1775	1857
99	1939	2021	2103	2185	2267	2349	2431	2513	2595	2677
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02	4397	4479	4561	4643	4725	4807	4889	4971	5052	5134
03	5216	5298	5380	5462	5544	5626	5708	5790	5871	5953
04	6035	6117	6199	6281	6363	6445	6526	6608	6690	6772
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06	7672	7754	7836	7918	8000	8082	8164	8245	8327	8409
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08	9309	9391	9473	9555	9636	9718	9800	9882	9964	0045
09	725 0127	0209	0291	0373	0454	0536	0618	0700	0782	0863
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11	1763	1845	1927	2008	2090	2172	2254	2336	2417	2499
12	2581	2662	2744	2826	2908	2989	3071	3153	3235	3316
13	3398	3480	3562	3643	3725	3807	3889	3970	4052	4134
14	4216	4297	4379	4461	4542	4624	4706	4788	4869	4951
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16	5850	5931	6013	6095	6176	6258	6340	6422	6503	6585
17	6667	6748	6830	6912	6993	7075	7157	7238	7320	7402
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22	0749	0830	0912	0994	1075	1157	1238	1320	1401	1483
23	1565	1646	1728	1809	1891	1973	2054	2136	2217	2299
24	2380	2462	2544	2625	2707	2788	2870	2951	3033	3115
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26	4012	4093	4175	4256	4338	4419	4501	4582	4664	4745
27	4827	4908	4990	5072	5153	5235	5316	5398	5479	5561
28	5642	5724	5805	5887	5968	6050	6131	6213	6294	6376
29	6457	6539	6620	6702	6783	6865	6946	7028	7109	7191
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31	8087	8168	8250	8331	8413	8494	8576	8657	8739	8820
32	8901	8983	9064	9146	9227	9309	9390	9472	9553	9634
33	727 9716	9797	9879	9960	0042	0123	0204	0286	0367	0449
34	0530	0612	0693	0774	0856	0937	1019	1100	1181	1263
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36	2158	2240	2321	2402	2484	2565	2647	2728	2809	2891
37	2972	3053	3135	3216	3298	3379	3460	3542	3623	3704
38	3786	3867	3948	4030	4111	4192	4274	4355	4437	4518
39	4599	4681	4762	4843	4925	5006	5087	5169	5250	5331
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41	6226	6307	6388	6470	6551	6632	6714	6795	6876	6958
42	7039	7120	7201	7283	7364	7445	7527	7608	7689	7770
43	7852	7933	8014	8095	8177	8258	8339	8421	8502	8583
44	8664	8746	8827	8908	8990	9071	9152	9233	9315	9396
5345	728 9477	9558	9640	9721	9802	9883	9965	0046	0127	0208
46	0290	0371	0452	0533	0614	0696	0777	0858	0939	1021
47	1102	1183	1264	1346	1427	1508	1589	1670	1752	1833
48	1914	1995	2076	2158	2239	2320	2401	2482	2564	2545
49	2726	2807	2888	2970	3051	3132	3213	3294	3375	3457
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52	5161	5242	5323	5404	5486	5567	5648	5729	5810	5891
53	5972	6054	6135	6216	6297	6378	6459	6540	6621	6703
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57	9216	9298	9379	9460	9541	9622	9703	9784	9865	9946
58	729 0027	0108	0189	0270	0351	0432	0513	0594	0675	0757
59	0838	0919	1000	1081	1162	1243	1324	1405	1486	1567
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62	3268	3349	3430	3511	3592	3673	3754	3835	3916	3997
63	4078	4159	4240	4321	4402	4483	4564	4645	4726	4807
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66	6507	6588	6669	6749	6830	6911	6992	7073	7154	7235
67	7316	7397	7478	7559	7640	7721	7801	7882	7963	8044
68	8125	8206	8287	8368	8449	8530	8610	8691	8772	8853
69	8934	9015	9096	9177	9258	9338	9419	9500	9581	9662
5370	730 9743	9824	9905	9985	0066	0147	0228	0309	0390	0471
71	0552	0632	0713	0794	0875	0956	1037	1118	1198	1279
72	1360	1441	1522	1603	1683	1764	1845	1926	2007	2088
73	2168	2249	2330	2411	2492	2573	2653	2734	2815	2896
74	2977	3057	3138	3219	3300	3381	3461	3542	3623	3704
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76	4593	4673	4754	4835	4916	4997	5077	5158	5239	5320
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78	6208	6289	6369	6450	6531	6612	6692	6773	6854	6935
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86	2663	2744	2825	2905	2986	3067	3147	3228	3309	3389
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88	4276	4356	4437	4518	4598	4679	4759	4840	4921	5001
89	5082	5162	5243	5324	5404	5485	5566	5646	5727	5807
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94	9109	9190	9270	9351	9431	9512	9592	9673	9753	9834
5395	732 9914	9995	0075	0156	0236	0317	0397	0478	0558	0639
96	0719	0800	0880	0961	1041	1122	1202	1283	1363	1444
97	1524	1605	1685	1766	1846	1927	2007	2087	2168	2248
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99	3133	3214	3294	3375	3455	3536	3616	3696	3777	3857
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01	4742	4822	4903	4983	5063	5144	5224	5305	5385	5465
02	5546	5626	5707	5787	5867	5948	6028	6109	6189	6269
03	6350	6430	6510	6591	6671	6752	6832	6912	6993	7073
04	7153	7234	7314	7394	7475	7555	7636	7716	7796	7877
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07	733 9564	9644	9724	9805	9885	9965	0046	0126	0206	0287
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23	2396	2476	2556	2636	2716	2796	2877	2957	3037	3117
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37	3593	3673	3753	3833	3913	3993	4073	4152	4232	4312
38	4392	4472	4552	4632	4711	4791	4871	4951	5031	5111
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68		8285	8364	8444	8523	8603	8682	8762	8841	8920	9000
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04		6784	6863	6942	7021	7100	7179	7258	7337	7415	7494
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23		1750	1829	1908	1986	2065	2144	2222	2301	2379	2458
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27		4895	4973	5052	5130	5209	5288	5366	5445	5523	5602
28		5680	5759	5837	5916	5995	6073	6152	6230	6309	6387
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38		3530	3608	3686	3765	3843	3922	4000	4078	4157	4235
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91		4895	4973	5050	5128	5206	5283	5361	5439	5516	5594
92		5672	5749	5827	5905	5982	6060	6138	6215	6293	6371
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18	7817	7896	7974	8053	8132	8210	8289	8368	8447	8525
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36	1961	2039	2118	2196	2275	2353	2431	2510	2588	2667
37	2745	2824	2902	2981	3059	3137	3216	3294	3373	3451
38	3530	3608	3686	3765	3843	3922	4000	4078	4157	4235
39	4314	4392	4470	4549	4627	4706	4784	4862	4941	5019
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42	6665	6744	6822	6900	6979	7057	7135	7214	7292	7370
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63	6486	6562	6637	6712	6788	6863	6938	7014	7089	7164
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69	1005	1081	1156	1231	1307	1382	1457	1532	1608	1683
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72	3263	3338	3414	3489	3564	3639	3715	3790	3865	3940
73	4016	4091	4166	4241	4316	4392	4467	4542	4617	4693
74	4768	4843	4918	4993	5069	5144	5219	5294	5369	5445
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76	6272	6347	6422	6497	6573	6648	6723	6798	6873	6948
77	7024	7099	7174	7249	7324	7400	7475	7550	7625	7700
78	7775	7851	7926	8001	8076	8151	8226	8301	8377	8452
79	8527	8602	8677	8752	8828	8903	8978	9053	9128	9203
5780	9278	9354	9429	9504	9579	9654	9729	9804	9879	9955
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82	0781	0856	0931	1006	1081	1156	1232	1307	1382	1457
83	1532	1607	1682	1757	1832	1907	1982	2058	2133	2208
84	2283	2358	2433	2508	2583	2658	2733	2808	2883	2959
5785	3034	3109	3184	3259	3334	3409	3484	3559	3634	3709
86	3784	3859	3934	4009	4085	4160	4235	4310	4385	4460
87	4535	4610	4685	4760	4835	4910	4985	5060	5135	5210
88	5285	5360	5435	5510	5585	5660	5735	5810	5885	5960
89	6035	6111	6186	6261	6336	6411	6486	6561	6636	6711
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92	8286	8361	8435	8510	8585	8660	8735	8810	8885	8960
93	9035	9110	9185	9260	9335	9410	9485	9560	9635	9710
94	763 9785	9860	9935	0010	0085	0160	0235	0310	0385	0459
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96	1284	1359	1434	1509	1583	1658	1733	1808	1883	1958
97	2033	2108	2183	2258	2333	2408	2482	2557	2632	2707
98	2782	2857	2932	3007	3082	3157	3232	3306	3381	3456
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13	4003	4078	4153	4227	4302	4377	4451	4526	4601	4676
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17	6991	7065	7140	7215	7289	7364	7439	7513	7588	7663
18	7737	7812	7886	7961	8036	8110	8185	8260	8334	8409
19	8484	8558	8633	8707	8782	8857	8931	9006	9081	9155
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22	0722	0797	0871	0946	1020	1095	1170	1244	1319	1393
23	1468	1542	1617	1692	1766	1841	1915	1990	2065	2139
24	2214	2288	2363	2437	2512	2586	2661	2736	2810	2885
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27	4450	4525	4599	4674	4748	4823	4897	4972	5046	5121
28	5195	5270	5344	5419	5493	5568	5643	5717	5792	5866
29	5941	6015	6090	6164	6239	6313	6388	6462	6537	6611
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37	1897	1971	2046	2120	2195	2269	2343	2418	2492	2567
38	2641	2715	2790	2864	2938	3013	3087	3162	3236	3310
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46	8588	8662	8737	8811	8885	8960	9034	9108	9182	9257
47	9331	9405	9479	9554	9628	9702	9777	9851	9925	9999
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56	6011	6085	6159	6233	6307	6381	6456	6530	6604	6678
57	6752	6826	6901	6975	7049	7123	7197	7271	7345	7420
58	7494	7568	7642	7716	7790	7864	7938	8013	8087	8161
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63	1199	1273	1347	1421	1495	1569	1643	1717	1791	1866
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66	3421	3495	3569	3643	3717	3791	3865	3939	4013	4087
67	4161	4235	4309	4383	4457	4531	4605	4679	4753	4827
68	4901	4975	5049	5123	5197	5271	5345	5419	5493	5567
69	5641	5715	5789	5863	5937	6011	6085	6159	6233	6307
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77	1557	1631	1705	1779	1852	1926	2000	2074	2148	2222
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79	3035	3108	3182	3256	3330	3404	3478	3552	3626	3699
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83	5988	6062	6136	6210	6284	6358	6431	6505	6579	6653
84	6727	6800	6874	6948	7022	7096	7169	7243	7317	7391
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86	8203	8276	8350	8424	8498	8571	8645	8719	8793	8867
87	8940	9014	9088	9162	9235	9309	9383	9457	9530	9604
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92	2627	2701	2775	2849	2922	2996	3070	3143	3217	3291
93	3364	3438	3512	3585	3659	3733	3807	3880	3954	4028
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07	3670	3743	3817	3890	3964	4037	4111	4184	4258	4331
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13	8079	8152	8226	8299	8373	8446	8519	8593	8666	8740
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17	1016	1089	1162	1236	1309	1383	1456	1529	1603	1676
18	1750	1823	1896	1970	2043	2117	2190	2263	2337	2410
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26	7616	7690	7763	7836	7910	7983	8056	8129	8203	8276
27	8349	8423	8496	8569	8642	8716	8789	8862	8936	9009
28	9082	9155	9228	9302	9375	9448	9521	9595	9668	9741
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31	1279	1352	1426	1499	1572	1645	1719	1792	1865	1938
32	2011	2085	2158	2231	2304	2377	2451	2524	2597	2670
33	2743	2817	2890	2963	3036	3109	3183	3256	3329	3402
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58	1005	1078	1151	1224	1297	1369	1442	1515	1588	1661
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86	1367	1440	1512	1585	1657	1730	1802	1875	1947	2020
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93	6443	6515	6588	6660	6733	6805	6878	6950	7022	7095
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01	2236	2309	2381	2453	2526	2598	2670	2743	2815	2888
02	2960	3032	3105	3177	3249	3322	3394	3466	3539	3611
03	3683	3756	3828	3900	3973	4045	4117	4190	4262	4335
04	4407	4479	4552	4624	4696	4768	4841	4913	4985	5058
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06	5853	5926	5998	6070	6143	6215	6287	6359	6432	6504
07	6576	6649	6721	6793	6866	6938	7010	7082	7155	7227
08	7299	7372	7444	7516	7588	7661	7733	7805	7877	7950
09	8022	8094	8167	8239	8311	8383	8456	8528	8600	8672
6010	8745	8817	8889	8962	9034	9106	9178	9251	9323	9395
11	9467	9540	9612	9684	9756	9829	9901	9973	0045	0117
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14	1634	1706	1779	1851	1923	1995	2067	2140	2212	2284
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16	3078	3150	3223	3295	3367	3439	3511	3584	3656	3728
17	3800	3872	3944	4017	4089	4161	4233	4305	4377	4450
18	4522	4594	4666	4738	4810	4883	4955	5027	5099	5171
19	5243	5316	5388	5460	5532	5604	5676	5748	5821	5893
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22	7408	7480	7552	7624	7696	7768	7840	7912	7984	8057
23	8129	8201	8273	8345	8417	8489	8561	8633	8705	8778
24	8850	8922	8994	9066	9138	9210	9282	9354	9426	9498
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27	1012	1084	1156	1228	1300	1372	1444	1516	1588	1660
28	1732	1804	1877	1949	2021	2093	2165	2237	2309	2381
29	2453	2525	2597	2669	2741	2813	2885	2957	3029	3101
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32	4613	4685	4757	4829	4901	4973	5045	5117	5189	5261
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42	1807	1879	1951	2023	2095	2167	2238	2310	2382	2454
43	2526	2598	2670	2742	2813	2885	2957	3029	3101	3173
44	3245	3316	3388	3460	3532	3604	3676	3748	3819	3891
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46	4681	4753	4825	4897	4969	5041	5112	5184	5256	5328
47	5400	5472	5543	5615	5687	5759	5831	5902	5974	6046
48	6118	6190	6261	6333	6405	6477	6549	6620	6692	6764
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53	782 9707	9778	9850	9922	9994	0065	0137	0209	0281	0352
54	0424	0496	0568	0639	0711	0783	0855	0926	0998	1070
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56	1859	1930	2002	2074	2146	2217	2289	2361	2432	2504
57	2576	2647	2719	2791	2863	2934	3006	3078	3149	3221
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62	6159	6231	6303	6374	6446	6518	6589	6661	6732	6804
63	6876	6947	7019	7091	7162	7234	7304	7377	7449	7520
64	7592	7664	7735	7807	7878	7950	8022	8093	8165	8236
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66	9024	9096	9167	9239	9310	9382	9454	9525	9597	9668
67	783 9740	9812	9883	9955	0026	0098	0169	0241	0313	0384
68	0456	0527	0599	0670	0742	0814	0885	0957	1028	1100
69	1171	1243	1314	1386	1458	1529	1601	1672	1744	1815
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71	2602	2674	2745	2817	2888	2960	3032	3103	3175	3246
72	3318	3389	3461	3532	3604	3675	3747	3818	3890	3961
73	4033	4104	4176	4247	4319	4390	4462	4533	4605	4676
74	4748	4819	4891	4962	5034	5105	5177	5248	5320	5391
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76	6178	6249	6321	6392	6464	6535	6606	6678	6749	6821
77	6892	6964	7035	7107	7178	7250	7321	7393	7464	7536
78	7607	7678	7750	7821	7893	7964	8036	8107	8179	8250
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84	1892	1963	2035	2106	2178	2249	2320	2392	2463	2534
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87	4033	4104	4176	4247	4318	4390	4461	4532	4604	4675
88	4746	4818	4889	4960	5032	5103	5374	5246	5317	5388
89	5460	5531	5602	5674	5745	5816	5888	5959	6030	6102
6090	6173	6244	6316	6387	6458	6529	6601	6672	6743	6815
91	6886	6957	7029	7100	7171	7242	7314	7385	7456	7528
92	7599	7670	7742	7813	7884	7955	8027	8098	8169	8241
93	8312	8383	8454	8526	8597	8668	8739	8811	8882	8953
94	9024	9096	9167	9238	9310	9381	9452	9523	9595	9666
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96	0450	0521	0592	0663	0735	0806	0877	0948	1019	1091
97	1162	1233	1304	1376	1447	1518	1589	1661	1732	1803
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03	5434	5505	5576	5647	5718	5789	5861	5932	6003	6074
04	6145	6216	6288	6359	6430	6501	6572	6643	6714	6786
6105	6857	6928	6999	7070	7141	7212	7283	7355	7426	7497
06	7568	7639	7710	7781	7852	7924	7995	8066	8137	8208
07	8279	8350	8421	8493	8564	8635	8706	8777	8848	8919
08	8990	9061	9132	9204	9275	9346	9417	9488	9559	9630
09	786 9701	9772	9843	9915	9986	0057	0128	0199	0270	0341
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12	1833	1905	1976	2047	2118	2189	2260	2331	2402	2473
13	2544	2615	2686	2757	2828	2899	2970	3041	3112	3183
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19	6805	6876	6946	7017	7088	7159	7230	7301	7372	7443
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22	8933	9004	9075	9146	9217	9288	9359	9430	9501	9572
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26	1770	1841	1912	1983	2053	2124	2195	2266	2337	2408
27	2479	2550	2621	2691	2762	2833	2904	2975	3046	3117
28	3188	3258	3329	3400	3471	3542	3613	3684	3754	3825
29	3896	3967	4038	4109	4180	4250	4321	4392	4463	4534
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31	5313	5384	5455	5526	5596	5667	5738	5809	5880	5951
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33	6730	6800	6871	6942	7013	7084	7155	7225	7296	7367
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38	0269	0340	0410	0481	0552	0623	0693	0764	0835	0906
39	0976	1047	1118	1189	1259	1330	1401	1472	1542	1613
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44	4512	4583	4653	4724	4795	4865	4936	5007	5078	5148
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47	6632	6703	6773	6844	6915	6985	7056	7127	7197	7268
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56	2986	3057	3127	3198	3268	3339	3409	3480	3550	3621
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58	4397	4467	4538	4608	4679	4749	4820	4890	4961	5032
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63	7922	7992	8063	8133	8204	8274	8344	8415	8485	8556
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66	790 0035	0106	0176	0247	0317	0387	0458	0528	0599	0669
67	0739	0810	0880	0951	1021	1092	1162	1232	1303	1373
68	1444	1514	1584	1655	1725	1796	1866	1936	2007	2077
69	2148	2218	2288	2359	2429	2500	2570	2640	2711	2781
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81	0587	0658	0728	0798	0868	0939	1009	1079	1150	1220
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83	1992	2063	2133	2203	2273	2344	2414	2484	2554	2625
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87	4801	4871	4942	5012	5082	5152	5222	5292	5363	5433
88	5503	5573	5643	5714	5784	5854	5924	5994	6064	6135
89	6205	6275	6345	6415	6486	6556	6626	6696	6766	6836
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97	1815	1885	1955	2025	2095	2165	2235	2305	2376	2446
98	2516	2586	2656	2726	2796	2866	2936	3006	3076	3146
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03	6018	6088	6158	6228	6298	6368	6438	6508	6578	6648
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06	8118	8188	8258	8328	8398	8468	8538	8608	8678	8747
07	8817	8887	8957	9027	9097	9167	9237	9307	9377	9447
08	793 9517	9587	9657	9727	9797	9867	9937	0007	0077	0147
09	0217	0287	0356	0426	0496	0566	0636	0706	0776	0846
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13	3014	3083	3153	3223	3293	3363	3433	3503	3573	3643
14	3712	3782	3852	3922	3992	4062	4132	4202	4272	4341
6215	4411	4481	4551	4621	4691	4761	4831	4900	4970	5040
16	5110	5180	5250	5320	5390	5459	5529	5599	5669	5739
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23	794 9998	0068	0138	0207	0277	0347	0417	0487	0556	0626
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6225	1394	1463	1533	1603	1673	1742	1812	1882	1952	2021
26	2091	2161	2231	2300	2370	2440	2510	2579	2649	2719
27	2789	2858	2928	2998	3068	3137	3207	3277	3347	3416
28	3486	3556	3626	3695	3765	3835	3904	3974	4044	4114
29	4183	4253	4323	4392	4462	4532	4602	4671	4741	4811
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31	5578	5647	5717	5787	5856	5926	5996	6065	6135	6205
32	6274	6344	6414	6484	6553	6623	6693	6762	6832	6902
33	6971	7041	7111	7180	7250	7320	7389	7459	7529	7598
34	7668	7738	7807	7877	7947	8016	8086	8156	8225	8295
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37	795 9757	9827	9897	9966	0036	0106	0175	0245	0314	0384
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47	6715	6785	6854	6924	6993	7063	7132	7202	7271	7341
48	7410	7480	7549	7619	7688	7758	7827	7897	7966	8036
49	8105	8175	8244	8314	8383	8453	8522	8592	8661	8731
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51	796 9495	9564	9634	9703	9773	9842	9912	9981	0051	0120
52	0190	0259	0329	0398	0468	0537	0606	0676	0745	0815
53	0884	0954	1023	1093	1162	1232	1301	1370	1440	1509
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57	3662	3731	3800	3870	3939	4009	4078	4147	4217	4286
58	4356	4425	4494	4564	4633	4703	4772	4841	4911	4980
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61	6437	6506	6576	6645	6714	6784	6853	6923	6992	7061
62	7131	7200	7269	7339	7408	7477	7547	7616	7685	7755
63	7824	7893	7963	8032	8101	8171	8240	8309	8379	8448
64	8517	8587	8656	8725	8795	8864	8933	9003	9072	9141
6265	9211	9280	9349	9419	9488	9557	9627	9696	9765	9835
66	797 9904	9973	0043	0112	0181	0250	0320	0389	0458	0528
67	0597	0666	0736	0805	0874	0943	1013	1082	1151	1221
68	1290	1359	1428	1498	1567	1636	1706	1775	1844	1913
69	1983	2052	2121	2191	2260	2329	2398	2468	2537	2606
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72	4060	4130	4199	4268	4337	4407	4476	4545	4614	4684
73	4753	4822	4891	4961	5030	5099	5168	5237	5307	5375
74	5445	5514	5584	5653	5722	5791	5860	5930	5999	6068
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76	6829	6899	6968	7037	7106	7175	7245	7314	7383	7452
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83	1671	1740	1809	1878	1947	2016	2085	2154	2224	2293
84	2362	2431	2500	2569	2638	2707	2776	2846	2915	2984
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87	4435	4504	4573	4642	4711	4780	4849	4918	4987	5056
88	5125	5194	5263	5333	5402	5471	5540	5609	5678	5747
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97	1337	1406	1475	1544	1613	1682	1751	1820	1889	1958
98	2027	2096	2164	2233	2302	2371	2440	2509	2578	2647
99	2716	2785	2854	2923	2992	3061	3130	3199	3268	3337
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01	4095	4164	4233	4302	4370	4439	4508	4577	4646	4715
02	4784	4853	4922	4991	5060	5129	5197	5266	5335	5404
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13	2358	2427	2495	2564	2633	2702	2771	2839	2908	2977
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16	4421	4490	4559	4627	4696	4765	4834	4903	4971	5040
17	5109	5178	5246	5315	5384	5453	5521	5590	5659	5727
18	5796	5865	5934	6002	6071	6140	6209	6277	6346	6415
19	6484	6552	6621	6690	6758	6827	6896	6965	7033	7102
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21	7858	7927	7995	8064	8133	8201	8270	8339	8408	8476
22	8545	8614	8682	8751	8820	8888	8957	9026	9094	9163
23	9232	9301	9369	9438	9507	9575	9644	9713	9781	9850
24	801 9919	9987	0056	0125	0193	0262	0331	0399	0468	0537
6325	0605	0674	0743	0811	0880	0949	1017	1086	1155	1223
26	1292	1361	1429	1498	1566	1635	1704	1772	1841	1910
27	1978	2047	2116	2184	2253	2322	2390	2459	2527	2596
28	2665	2733	2802	2871	2939	3008	3076	3145	3214	3282
29	3351	3420	3488	3557	3625	3694	3763	3831	3900	3968
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31	4723	4792	4860	4929	4998	5066	5135	5203	5272	5340
32	5409	5478	5546	5615	5683	5752	5821	5889	5958	6026
33	6095	6163	6232	6301	6369	6438	6506	6575	6643	6712
34	6781	6849	6918	6986	7055	7123	7192	7261	7329	7398
6335	7466	7535	7603	7672	7740	7809	7878	7946	8015	8083
36	8152	8220	8289	8357	8426	8494	8563	8631	8700	8769
37	8837	8906	8974	9043	9111	9180	9248	9317	9385	9454
38	802 9522	9591	9659	9728	9796	9865	9933	0002	0070	0139
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42	2262	2331	2399	2468	2536	2605	2673	2742	2810	2879
43	2947	3016	3084	3153	3221	3289	3358	3426	3495	3563
44	3632	3700	3769	3837	3906	3974	4042	4111	4179	4248
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46	5001	5069	5138	5206	5274	5343	5411	5480	5548	5617
47	5685	5753	5822	5890	5959	6027	6096	6164	6232	6301
48	6369	6438	6506	6574	6643	6711	6780	6848	6916	6985
49	7053	7122	7190	7258	7327	7395	7464	7532	7600	7669
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52	9105	9173	9242	9310	9378	9447	9515	9583	9652	9720
53	803 9789	9857	9925	9994	0062	0130	0199	0267	0335	0404
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56	1839	1907	1976	2044	2112	2181	2249	2317	2385	2454
57	2522	2590	2659	2727	2795	2864	2932	3000	3069	3137
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62	5937	6005	6073	6141	6210	6278	6346	6414	6483	6551
63	6619	6687	6756	6824	6892	6960	7029	7097	7165	7233
64	7302	7370	7438	7506	7575	7643	7711	7779	7848	7916
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67	9348	9417	9485	9553	9621	9690	9758	9826	9894	9962
68	804 0031	0099	0167	0236	0303	0372	0440	0508	0576	0644
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73	3439	3507	3575	3644	3712	3780	3848	3916	3984	4052
74	4121	4189	4257	4325	4393	4461	4529	4598	4666	4734
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76	5483	5551	5619	5687	5756	5824	5892	5960	6028	6096
77	6164	6232	6300	6368	6437	6505	6573	6641	6709	6777
78	6845	6913	6981	7049	7118	7186	7254	7322	7390	7458
79	7526	7594	7662	7730	7798	7866	7934	8003	8071	8139
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83	0248	0316	0385	0453	0521	0589	0657	0725	0793	0861
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86	2289	2357	2425	2493	2561	2629	2697	2765	2833	2901
87	2969	3037	3105	3173	3241	3309	3377	3445	3513	3581
88	3649	3717	3785	3853	3921	3989	4057	4125	4193	4261
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91	5688	5756	5824	5892	5960	6028	6096	6164	6232	6300
92	6368	6436	6504	6571	6639	6707	6775	6843	6911	6979
93	7047	7115	7183	7251	7319	7387	7455	7523	7590	7658
94	7726	7794	7862	7930	7998	8066	8134	8202	8270	8338
6395	8405	8473	8541	8609	8677	8745	8813	8881	8949	9017
96	9085	9152	9220	9288	9356	9424	9492	9560	9628	9696
97	806 9764	9831	9899	9967	0035	0103	0171	0239	0307	0374
98	0442	0510	0578	0646	0714	0782	0850	0917	0985	1053
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03	3835	3903	3971	4038	4106	4174	4242	4310	4378	4445
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06	5869	5937	6005	6073	6141	6208	6276	6344	6412	6479
07	6547	6615	6683	6751	6818	6886	6954	7022	7089	7157
08	7225	7293	7361	7428	7496	7564	7632	7699	7767	7835
09	7903	7970	8038	8106	8174	8242	8309	8377	8445	8513
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12	9935	0003	0071	0138	0206	0274	0342	0409	0477	0545
13	807 0612	0680	0748	0815	0883	0951	1019	1086	1154	1222
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16	2644	2711	2779	2847	2914	2982	3050	3117	3185	3253
17	3320	3388	3456	3523	3591	3659	3726	3794	3862	3929
18	3997	4065	4132	4200	4268	4335	4403	4471	4538	4606
19	4674	4741	4809	4877	4944	5012	5080	5147	5215	5283
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21	6027	6094	6162	6230	6297	6365	6432	6500	6568	6635
22	6703	6771	6838	6906	6974	7041	7109	7176	7244	7312
23	7379	7447	7514	7582	7650	7717	7785	7853	7920	7988
24	8055	8123	8191	8258	8326	8393	8461	8529	8596	8664
6425	8731	8799	8867	8934	9002	9069	9137	9204	9272	9340
26	9407	9475	9542	9610	9678	9745	9813	9880	9948	0015
27	808 0083	0151	0218	0286	0353	0421	0488	0556	0624	0691
28	0759	0826	0894	0961	1029	1096	1164	1232	1299	1367
29	1434	1502	1569	1637	1704	1772	1840	1907	1975	2042
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31	2785	2853	2920	2988	3055	3123	3190	3258	3325	3393
32	3460	3528	3595	3663	3730	3798	3865	3933	4000	4068
33	4136	4203	4271	4338	4405	4473	4541	4608	4676	4743
34	4811	4878	4946	5013	5081	5148	5216	5283	5351	5418
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36	6160	6228	6295	6363	6430	6498	6565	6633	6700	6768
37	6835	6903	6970	7037	7105	7172	7240	7307	7375	7442
38	7510	7577	7645	7712	7780	7847	7914	7982	8049	8117
39	8184	8252	8319	8387	8454	8521	8589	8656	8724	8791
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41	9533	9600	9668	9735	9803	9870	9938	0005	0072	0140
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43	0881	0949	1016	1084	1151	1218	1286	1353	1421	1488
44	1555	1623	1690	1757	1825	1892	1960	2027	2094	2162
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46	2903	2970	3038	3105	3173	3240	3307	3375	3442	3509
47	3577	3644	3711	3779	3846	3914	3981	4048	4116	4183
48	4250	4318	4385	4452	4520	4587	4654	4722	4789	4856
49	4924	4991	5058	5126	5193	5260	5328	5395	5462	5530
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51	6270	6338	6405	6472	6540	6607	6674	6742	6809	6876
52	6944	7011	7078	7146	7213	7280	7347	7415	7482	7549
53	7617	7684	7751	7819	7886	7953	8020	8088	8155	8222
54	8290	8357	8424	8491	8559	8626	8693	8761	8828	8895
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56	9635	9702	9770	9837	9904	9972	0039	0106	0173	0241
57	810 0308	0375	0442	0510	0577	0644	0711	0779	0846	0913
58	0980	1048	1115	1182	1249	1317	1384	1451	1518	1586
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63	4342	4409	4476	4543	4610	4678	4745	4812	4879	4946
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66	6357	6424	6491	6558	6626	6693	6760	6827	6894	6961
67	7029	7096	7163	7230	7297	7364	7432	7499	7566	7633
68	7700	7767	7834	7902	7969	8036	8103	8170	8237	8304
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73	1056	1123	1190	1257	1324	1392	1459	1526	1593	1660
74	1727	1794	1861	1928	1995	2062	2129	2197	2264	2331
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77	3739	3806	3873	3940	4007	4074	4141	4208	4275	4342
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79	5080	5147	5214	5281	5348	5415	5482	5549	5616	5683
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86	812 9769	9836	9903	9970	0037	0104	0171	0238	0305	0372
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98	7797	7864	7931	7998	8064	8131	8198	8265	8332	8399
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03	1138	1204	1271	1338	1405	1471	1538	1605	1672	1739
04	1805	1872	1939	2006	2072	2139	2206	2273	2339	2406
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08	4475	4542	4609	4676	4742	4809	4876	4943	5009	5076
09	5143	5209	5276	5343	5410	5476	5543	5610	5676	5743
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11	6477	6544	6610	6677	6744	6810	6877	6944	7011	7077
12	7144	7211	7277	7344	7411	7477	7544	7611	7677	7744
13	7811	7877	7944	8011	8077	8144	8211	8278	8344	8411
14	8478	8544	8611	8678	8744	8811	8878	8944	9011	9078
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16	814 9811	9877	9944	0011	0077	0144	0211	0277	0344	0411
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18	1144	1210	1277	1343	1410	1477	1543	1610	1677	1743
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22	3808	3875	3941	4008	4074	4141	4207	4274	4341	4407
23	4474	4540	4607	4674	4740	4807	4873	4940	5006	5073
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26	6471	6537	6604	6670	6737	6803	6870	6937	7003	7070
27	7136	7203	7269	7336	7402	7469	7536	7602	7668	7735
28	7801	7868	7935	8001	8068	8134	8201	8267	8334	8400
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43	7769	7836	7902	7968	8035	8101	8167	8234	8300	8367
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46	816 9760	9826	9893	9959	0025	0092	0158	0224	0291	0357
47	0423	0490	0556	0622	0689	0755	0821	0888	0954	1020
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49	1750	1816	1883	1949	2015	2081	2148	2214	2280	2347
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56	6389	6456	6522	6588	6654	6721	6787	6853	6919	6986
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58	7714	7780	7847	7913	7979	8045	8111	8178	8244	8310
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69	4993	5059	5125	5191	5257	5323	5389	5455	5521	5588
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73	7636	7702	7768	7835	7901	7967	8033	8099	8165	8231
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6675	8958	9024	9090	9156	9222	9288	9354	9420	9486	9552
76	818 9618	9684	9750	9816	9882	9948	0014	0080	0146	0212
77	0278	0344	0410	0477	0543	0609	0675	0741	0807	0873
78	0939	1005	1071	1137	1203	1269	1335	1401	1467	1533
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82		3579	3645	3711	3777	3843	3909	3975	4041	4107	4173
83		4239	4305	4370	4436	4502	4568	4634	4700	4766	4832
84		4898	4964	5030	5096	5162	5228	5294	5360	5426	5492
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87		6877	6943	7008	7074	7140	7206	7272	7338	7404	7470
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89		8195	8261	8327	8393	8459	8525	8591	8656	8722	8788
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91	819	9513	9579	9645	9711	9777	9843	9908	9974	0040	0106
92		0172	0238	0304	0370	0436	0501	0567	0633	0699	0765
93		0831	0897	0962	1028	1094	1160	1226	1292	1358	1424
94		1489	1555	1621	1687	1753	1819	1885	1950	2016	2082
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96		2806	2872	2938	3004	3070	3136	3202	3267	3333	3399
97		3465	3531	3597	3662	3728	3794	3860	3926	3991	4057
98		4123	4189	4255	4321	4386	4452	4518	4584	4650	4715
99		4781	4847	4913	4979	5045	5110	5176	5242	5308	5374
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01		6097	6163	6229	6295	6360	6426	6492	6558	6624	6689
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03		7413	7479	7545	7610	7676	7742	7808	7873	7939	8005
04		8071	8136	8202	8268	8334	8399	8465	8531	8597	8662
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06		9386	9451	9517	9583	9649	9714	9780	9846	9912	9977
07	820	0043	0109	0175	0240	0306	0372	0437	0503	0569	0635
08		0700	0766	0832	0898	0963	1029	1095	1160	1226	1292
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11		2672	2737	2803	2869	2934	3000	3066	3131	3197	3263
12		3328	3394	3460	3525	3591	3657	3723	3788	3854	3920
13		3985	4051	4117	4182	4248	4314	4379	4445	4511	4576
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17		6611	6677	6743	6808	6874	6939	7005	7071	7136	7202
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22		9892	9957								
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24		1203	1269	1334	1400	1465	0875	0941	1007	1072	1138
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26		2514	2580	2645	2711	2776	2187	2252	2318	2383	2449
27		3170	3235	3301	3366	3432	2842	2908	2973	3039	3104
28		3825	3891	3956	4022	4087	3497	3563	3628	3694	3759
29		4480	4546	4611	4677	4742	4153	4218	4284	4349	4415
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46	5603	5669	5734	5799	5865	5930	5995	6061	6126	6191	6 39
47	6257	6322	6387	6453	6518	6583	6649	6714	6779	6845	7 46
48	6910	6975	7041	7106	7171	7237	7302	7367	7433	7498	8 52
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63	6698	6763	6828	6894	6959	7024	7089	7154	7220	7285	
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83	825 9715	9780	9845	9910	9975	0040	0105	0169	0234	0299	3 20
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87	2313	2378	2443	2508	2573	2638	2703	2768	2833	2898	7 46
88	2963	3028	3093	3157	3222	3287	3352	3417	3482	3547	8 52
89	3612	3677	3742	3807	3872	3937	4002	4066	4131	4196	9 59
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67	3962	4026	4090	4154	4218	4283	4347	4411	4475	4539
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87	6778	6842	6906	6970	7034	7098	7162	7226	7290	7354
88	7418	7482	7546	7610	7674	7738	7802	7866	7930	7994
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13	3384	3448	3511	3575	3639	3703	3766	3830	3894	3958
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17	5933	5997	6060	6124	6188	6251	6315	6379	6443	6506
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67	7670	7734	7797	7860	7923	7987	8050	8113	8176	8240
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74	2095	2158	2222	2285	2348	2411	2474	2538	2601	2664
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78	4622	4685	4748	4811	4874	4937	5001	5064	5127	5190
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03	0379	0442	0505	0567	0630	0693	0756	0819	0882	0945
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17	9178	9241	9303	9366	9429	9492	9554	9617	9680	9743
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22	2316	2379	2441	2504	2567	2630	2692	2755	2818	2881
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26	4825	4888	4950	5013	5076	5138	5201	5264	5326	5389
27	5452	5515	5577	5640	5703	5765	5828	5891	5953	6016
28	6079	6141	6204	6267	6330	6392	6455	6518	6580	6643
29	6706	6768	6831	6894	6956	7019	7082	7144	7207	7270
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31	7959	8022	8084	8147	8210	8272	8335	8398	8460	8523
32	8586	8648	8711	8773	8836	8899	8961	9024	9087	9149
33	9212	9275	9337	9400	9463	9525	9588	9650	9713	9776
34	841 9838	9901	9964	0026	0089	0152	0214	0277	0339	0402
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37	1717	1780	1842	1905	1967	2030	2093	2155	2218	2280
38	2343	2406	2468	2531	2593	2656	2719	2781	2844	2906
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42	4846	4909	4971	5034	5096	5159	5221	5284	5347	5409
43	5472	5534	5597	5659	5722	5784	5847	5909	5972	6035
44	6097	6160	6222	6285	6347	6410	6472	6535	6597	6660
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53	1722	1785	1847	1910	1972	2035	2097	2160	2222	2284
54	2347	2409	2472	2534	2597	2659	2722	2784	2846	2909
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57	4220	4282	4345	4407	4470	4532	4595	4657	4719	4782
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62	7340	7403	7465	7527	7590	7652	7714	7777	7839	7902
63	7964	8026	8089	8151	8213	8276	8338	8401	8463	8525
64	8588	8650	8712	8775	8837	8899	8962	9024	9086	9149
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66	843 9835	9897	9959	0022	0084	0146	0209	0271	0333	0396
67	0458	0520	0583	0645	0707	0770	0832	0894	0957	1019
68	1081	1144	1206	1268	1331	1393	1455	1518	1580	1642
69	1705	1767	1829	1892	1954	2016	2079	2141	2203	2265
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76	6065	6127	6189	6251	6314	6376	6438	6500	6563	6625
77	6687	6749	6812	6874	6936	6998	7061	7123	7185	7247
78	7310	7372	7434	7496	7559	7621	7683	7745	7808	7870
79	7932	7994	8056	8119	8181	8243	8305	8368	8430	8492
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91	5393	5455	5517	5579	5642	5704	5766	5828	5890	5952
92	6014	6076	6138	6201	6263	6325	6387	6449	6511	6573
93	6635	6697	6759	6822	6884	6946	7008	7070	7132	7194
94	7256	7318	7380	7443	7505	7567	7629	7691	7753	7815
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97	9119	9181	9243	9305	9367	9429	9491	9553	9615	9677
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02	2221	2283	2345	2407	2469	2531	2593	2655	2717	2779
03	2841	2903	2965	3027	3089	3151	3213	3275	3337	3399
04	3461	3523	3585	3647	3709	3771	3833	3895	3957	4019
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06	4701	4763	4825	4887	4949	5011	5073	5135	5197	5259
07	5321	5383	5445	5507	5569	5631	5693	5755	5817	5879
08	5941	6003	6065	6127	6189	6251	6313	6375	6437	6499
09	6561	6623	6685	6746	6808	6870	6932	6994	7056	7118
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11	7800	7862	7924	7986	8047	8109	8171	8233	8295	8357
12	8419	8481	8543	8605	8667	8729	8791	8853	8915	8976
13	9038	9100	9162	9224	9286	9348	9410	9472	9534	9596
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17	1515	1577	1639	1700	1762	1824	1886	1948	2010	2072
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19	2752	2814	2876	2938	3000	3062	3124	3186	3247	3309
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21	3990	4052	4113	4175	4237	4299	4361	4423	4485	4546
22	4608	4670	4732	4794	4856	4917	4979	5041	5103	5165
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29	8935	8997	9059	9121	9183	9244	9306	9368	9430	9491
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37	3876	3937	3999	4061	4122	4184	4246	4307	4369	4431
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46	9426	9488	9550	9611	9673	9735	9796	9858	9919	9981
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53	3739	3800	3862	3924	3985	4047	4108	4170	4231	4293
54	4355	4416	4478	4539	4601	4662	4724	4786	4847	4909
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56	5586	5647	5709	5770	5832	5893	5955	6017	6078	6140
57	6201	6263	6324	6386	6447	6509	6570	6632	6693	6755
58	6817	6878	6940	7001	7063	7124	7186	7247	7309	7370
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66	1736	1798	1859	1921	1982	2044	2105	2167	2228	2289
67	2351	2412	2474	2535	2597	2658	2720	2781	2843	2904
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71	4808	4870	4931	4993	5054	5116	5177	5238	5300	5361
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73	6037	6098	6159	6221	6282	6344	6405	6466	6528	6589
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76	7878	7940	8001	8062	8124	8185	8246	8308	8369	8431
77	8492	8553	8615	8676	8737	8799	8860	8922	8983	9044
78	9106	9167	9228	9290	9351	9412	9474	9535	9596	9658
79	850 9719	9780	9842	9903	9965	0026	0087	0149	0210	0271
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82	1559	1621	1682	1743	1805	1866	1927	1988	2050	2111
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84	2786	2847	2908	2969	3031	3092	3153	3215	3276	3337
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86	4011	4073	4134	4195	4257	4318	4379	4440	4502	4563
87	4624	4686	4747	4808	4869	4931	4992	5053	5115	5176
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89	5850	5911	5972	6034	6095	6156	6217	6279	6340	6401
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91	7075	7136	7197	7259	7320	7381	7442	7504	7565	7626
92	7687	7749	7810	7871	7932	7993	8055	8116	8177	8238
93	8300	8361	8422	8483	8545	8606	8667	8728	8789	8851
94	8912	8973	9034	9096	9157	9218	9279	9340	9402	9463
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96	0136	0197	0258	0320	0381	0442	0503	0564	0626	0687
97	0748	0809	0870	0932	0993	1054	1115	1176	1238	1299
98	1360	1421	1482	1544	1605	1666	1727	1788	1849	1911
99	1972	2033	2094	2155	2216	2278	2339	2400	2461	2522
7100	2583	2645	2706	2767	2828	2889	2950	3012	3073	3134
01	3195	3256	3317	3379	3440	3501	3562	3623	3684	3746
02	3807	3868	3929	3990	4051	4112	4174	4235	4296	4357
03	4418	4479	4540	4602	4663	4724	4785	4846	4907	4968
04	5030	5091	5152	5213	5274	5335	5396	5457	5519	5580
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06	6252	6313	6374	6435	6496	6558	6619	6680	6741	6802
07	6863	6924	6985	7046	7108	7169	7230	7291	7352	7413
08	7474	7535	7596	7657	7719	7780	7841	7902	7963	8024
09	8085	8146	8207	8268	8329	8391	8452	8513	8574	8635
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11	9307	9368	9429	9490	9551	9612	9673	9734	9795	9856
12	852 9917	9979	0040	0101	0162	0223	0284	0345	0406	0467
13	0528	0589	0650	0711	0772	0833	0894	0955	1017	1078
14	1139	1200	1261	1322	1383	1444	1505	1566	1627	1688
7115	1749	1810	1871	1932	1993	2054	2115	2176	2237	2298
16	2359	2420	2481	2542	2604	2665	2726	2787	2848	2909
17	2970	3031	3092	3153	3214	3275	3336	3397	3458	3519
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22	6020	6081	6142	6203	6264	6325	6386	6447	6508	6568
23	6629	6690	6751	6812	6873	6934	6995	7056	7117	7178
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27	9068	9129	9189	9250	9311	9372	9433	9494	9555	9616
28	853 9677	9738	9799	9860	9921	9982	0042	0103	0164	0225
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31	1504	1565	1626	1687	1748	1809	1870	1931	1992	2052
32	2113	2174	2235	2296	2357	2418	2479	2540	2600	2661
33	2722	2783	2844	2905	2966	3027	3088	3148	3209	3270
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36	4548	4609	4670	4731	4792	4853	4914	4974	5035	5096
37	5157	5218	5279	5340	5400	5461	5522	5583	5644	5705
38	5765	5826	5887	5948	6009	6070	6130	6191	6252	6313
39	6374	6435	6495	6556	6617	6678	6739	6800	6860	6921
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41	7590	7651	7712	7773	7834	7894	7955	8016	8077	8138
42	8198	8259	8320	8381	8442	8502	8563	8624	8685	8746
43	8807	8867	8928	8989	9050	9110	9171	9232	9293	9354
44	9414	9475	9536	9597	9658	9718	9779	9840	9901	9962
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46	0630	0691	0752	0812	0873	0934	0995	1056	1116	1177
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48	1845	1906	1967	2028	2088	2149	2210	2271	2331	2392
49	2453	2514	2574	2635	2696	2757	2817	2878	2939	3000
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51	3668	3729	3789	3850	3911	3971	4032	4093	4154	4214
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53	4882	4943	5004	5064	5125	5186	5247	5307	5368	5429
54	5489	5550	5611	5671	5732	5793	5854	5914	5975	6036
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56	6703	6764	6825	6885	6946	7007	7067	7128	7189	7249
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58	7917	7978	8038	8099	8160	8220	8281	8342	8402	8463
59	8524	8584	8645	8706	8766	8827	8888	8948	9009	9070
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63	0950	1010	1071	1131	1192	1253	1313	1374	1435	1495
64	1556	1616	1677	1738	1798	1859	1919	1980	2041	2101
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66	2768	2829	2889	2950	3010	3071	3132	3192	3253	3313
67	3374	3435	3495	3556	3616	3677	3738	3798	3859	3919
68	3980	4041	4101	4162	4222	4283	4343	4404	4465	4525
69	4586	4646	4707	4768	4828	4889	4949	5010	5070	5131
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71	5797	5858	5918	5979	6039	6100	6161	6221	6282	6342
72	6403	6463	6524	6584	6645	6706	6766	6827	6887	6948
73	7008	7069	7129	7190	7250	7311	7372	7432	7493	7553
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77	9429	9490	9550	9611	9672	9732	9793	9853	9914	9974
78	856 0035	0095	0156	0216	0277	0337	0398	0458	0519	0579
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22		6575	6635	6695	6755	6815	6876	6936	6996	7056	7116
23		7176	7236	7296	7357	7417	7477	7537	7597	7657	7717
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28		0181	0242	0302	0362	0422	0482	0542	0602	0662	0722
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97	1443	1503	1562	1622	1682	1741	1801	1860	1920	1979
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16	2737	2796	2856	2915	2974	3034	3093	3152	3212	3271
17	3331	3390	3449	3509	3568	3627	3687	3746	3805	3865
18	3924	3983	4043	4102	4161	4221	4280	4339	4399	4458
19	4517	4577	4636	4695	4755	4814	4873	4933	4992	5051
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21	5704	5763	5823	5882	5941	6001	6060	6119	6179	6238
22	6297	6357	6416	6475	6534	6594	6653	6712	6772	6831
23	6890	6950	7009	7068	7128	7187	7246	7305	7365	7424
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32	2225	2284	2343	2402	2461	2521	2580	2639	2698	2758
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36	4593	4652	4712	4771	4830	4889	4948	5008	5067	5126
37	5185	5244	5304	5363	5422	5481	5540	5600	5659	5718
38	5777	5836	5895	5955	6014	6073	6132	6191	6251	6310
39	6369	6428	6487	6546	6606	6665	6724	6783	6842	6901
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53	4646	4705	4764	4823	4882	4941	5000	5059	5118	5177
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67	2907	2966	3025	3084	3142	3201	3260	3319	3378	3437
68	3496	3555	3614	3673	3732	3791	3850	3909	3968	4027
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74	7031	7090	7149	7208	7267	7326	7385	7444	7502	7561
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76	8209	8268	8327	8386	8445	8503	8562	8621	8680	8739
77	8798	8857	8916	8974	9033	9092	9151	9210	9269	9328
78	9387	9445	9504	9563	9622	9681	9740	9799	9857	9916
79	868 9975	0034	0093	0152	0211	0269	0328	0387	0446	0505
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82	1740	1799	1858	1917	1976	2035	2093	2152	2211	2270
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87	4681	4740	4799	4857	4916	4975	5034	5093	5151	5210
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91	7032	7091	7150	7208	7267	7326	7385	7443	7502	7561
92	7620	7678	7737	7796	7855	7913	7972	8031	8090	8148
93	8207	8266	8325	8383	8442	8501	8560	8618	8677	8736
94	8794	8853	8912	8971	9029	9088	9147	9206	9264	9323
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23	5795	5853	5912	5970	6029	6087	6146	6204	6263	6321	3 18
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27	8134	8193	8251	8310	8368	8427	8485	8544	8602	8660	7 41
28	8719	8777	8836	8894	8953	9011	9070	9128	9187	9245	8 47
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61	7970	8029	8087	8145	8203	8261	8320	8378	8436	8494	1 6
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	873					0007	0065	0124	0182	0240	5 29
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66	0880	0938	0996	1054	1113	1171	1229	1287	1345	1403	7 41
67	1462	1520	1578	1636	1694	1752	1810	1869	1927	1985	8 46
68	2043	2101	2159	2218	2276	2334	2392	2450	2508	2566	9 52
69	2625	2683	2741	2799	2857	2915	2973	3032	3090	3148	
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73	4950	5008	5066	5124	5182	5240	5298	5357	5415	5473	
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84	1338	1396	1454	1512	1570	1628	1686	1744	1802	1860
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86	2498	2556	2614	2672	2730	2788	2846	2904	2962	3020
87	3078	3136	3194	3252	3310	3368	3426	3484	3542	3600
88	3658	3716	3774	3832	3890	3948	4006	4064	4122	4180
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91	5398	5456	5514	5572	5630	5688	5746	5804	5862	5920
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93	6557	6615	6673	6731	6789	6847	6905	6963	7021	7079
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97	8875	8933	8991	9049	9107	9165	9223	9281	9339	9396
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99	875 0034	0091	0149	0207	0265	0323	0381	0439	0497	0555
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01	1192	1250	1307	1365	1423	1481	1539	1597	1655	1713
02	1771	1828	1886	1944	2002	2060	2118	2176	2234	2292
03	2349	2407	2465	2523	2581	2639	2697	2755	2813	2870
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06	4086	4143	4201	4259	4317	4375	4433	4491	4548	4606
07	4664	4722	4780	4838	4896	4953	5011	5069	5127	5185
08	5243	5300	5358	5416	5474	5532	5590	5648	5705	5763
09	5821	5879	5937	5995	6052	6110	6168	6226	6284	6342
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17	876 0446	0503	0561	0619	0677	0734	0792	0850	0908	0965
18	1023	1081	1139	1197	1254	1312	1370	1428	1485	1543
19	1601	1659	1716	1774	1832	1890	1947	2005	2063	2121
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21	2756	2814	2871	2929	2987	3045	3102	3160	3218	3276
22	3333	3391	3449	3506	3564	3622	3680	3737	3795	3853
23	3911	3968	4026	4084	4142	4199	4257	4315	4372	4430
24	4488	4546	4603	4661	4719	4776	4834	4892	4950	5007
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26	5642	5700	5758	5815	5873	5931	5988	6046	6104	6161
27	6219	6277	6335	6392	6450	6508	6565	6623	6681	6738
28	6796	6854	6911	6969	7027	7085	7142	7200	7258	7315
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32	9103	9161	9218	9276	9334	9391	9449	9507	9564	9622
33	9680	9737	9795	9853	9910	9968				
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37	1985	2043	2100	2158	2216	2273	2331	2388	2446	2504
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54		1770	1827	1885	1942	2000	2057	2115	2172	2230	2287
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59		4643	4701	4758	4816	4873	4931	4988	5046	5103	5161
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61		5792	5850	5907	5965	6022	6080	6137	6194	6252	6309
62		6367	6424	6482	6539	6596	6654	6711	6769	6826	6884
63		6941	6998	7056	7113	7171	7228	7286	7343	7400	7458
64		7515	7573	7630	7687	7745	7802	7860	7917	7975	8032
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66		8663	8721	8778	8836	8893	8950	9008	9065	9123	9180
67		9237	9295	9352	9410	9467	9524	9582	9639	9696	9754
68	879	9811	9869	9926	9983	0041	0098	0156	0213	0270	0328
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71		1532	1590	1647	1705	1762	1819	1877	1934	1991	2049
72		2106	2163	2221	2278	2335	2393	2450	2508	2565	2622
73		2680	2737	2794	2852	2909	2966	3024	3081	3138	3196
74		3253	3310	3368	3425	3482	3540	3597	3654	3712	3769
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76		4400	4457	4514	4572	4629	4686	4744	4801	4858	4916
77		4973	5030	5088	5145	5202	5259	5317	5374	5431	5489
78		5546	5603	5661	5718	5775	5833	5890	5947	6004	6062
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83		8411	8468	8525	8582	8640	8697	8754	8811	8869	8926
84		8983	9041	9098	9155	9212	9270	9327	9384	9441	9499
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87		0701	0758	0815	0873	0930	0987	1044	1102	1159	1216
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91		2990	3047	3104	3162	3219	3276	3333	3390	3448	3505
92		3562	3619	3676	3734	3791	3848	3905	3962	4020	4077
93		4134	4191	4248	4306	4363	4420	4477	4534	4592	4649
94		4706	4763	4820	4877	4935	4992	5049	5106	5163	5221
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96		5850	5907	5964	6021	6078	6135	6193	6250	6307	6364
97		6421	6478	6536	6593	6650	6707	6764	6821	6879	6936
98		6993	7050	7107	7164	7222	7279	7336	7393	7450	7507
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03		9850	9907	9964	0021	0078	0136	0193	0250	0307	0364
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7605		0992	1049	1106	1163	1221	1278	1335	1392	1449	1506
06		1563	1620	1677	1735	1792	1849	1906	1963	2020	2077
07		2134	2191	2248	2305	2363	2420	2477	2534	2591	2648
08		2705	2762	2819	2876	2933	2990	3048	3105	3162	3219
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19		8980	9037	9094	9151	9208	9265	9322	9379	9436	9493
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83	5308	5365	5421	5478	5534	5591	5647	5704	5761	5817
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87	7569	7625	7682	7738	7795	7851	7908	7964	8021	8077
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06	8290	8346	8403	8459	8515	8572	8628	8685	8741	8797
07	8854	8910	8966	9023	9079	9135	9192	9248	9304	9361
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11	1107	1163	1220	1276	1332	1389	1445	1501	1558	1614
12	1670	1727	1783	1839	1895	1952	2008	2064	2121	2177
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23		7860	7917	7973	8029	8085	8142	8198	8254	8310	8366
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27	888	0109	0165	0222	0278	0334	0390	0446	0503	0559	0615
28		0671	0727	0784	0840	0896	0952	1008	1064	1121	1177
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32		2918	2975	3031	3087	3143	3199	3255	3312	3368	3424
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37		5726	5782	5838	5894	5950	6007	6063	6119	6175	6231
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39		6848	6905	6961	7017	7073	7129	7185	7241	7297	7353
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41		7971	8027	8083	8139	8195	8251	8307	8363	8419	8476
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43		9093	9149	9205	9261	9317	9373	9429	9485	9541	9597
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58		7498	7554	7610	7666	7722	7778	7834	7890	7946	8002
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61		9177	9233	9289	9345	9401	9457	9513	9569	9624	9680
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66		1974	2030	2086	2142	2198	2253	2309	2365	2421	2477
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68		3092	3148	3204	3260	3316	3372	3428	3484	3539	3595
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72		5328	5384	5440	5496	5551	5607	5663	5719	5775	5831
73		5887	5943	5998	6054	6110	6166	6222	6278	6334	6389
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86	3144	3200	3256	3311	3367	3423	3479	3534	3590	3646
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96	8718	8774	8830	8885	8941	8997	9053	9108	9164	9220
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16	9846	9901	9957	0012	0068	0123	0179	0234	0290	0346
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19	1512	1568	1623	1679	1734	1790	1845	1901	1956	2012
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32	8727	8782	8838	8893	8949	9004	9059	9115	9170	9226
33	9281	9337	9392	9448	9503	9558	9614	9669	9725	9780
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48	7590	7645	7701	7756	7811	7867	7922	7977	8033	8088
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62	5330	5386	5441	5496	5551	5607	5662	5717	5772	5828
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87	9118	9173	9229	9284	9339	9394	9449	9504	9559	9614
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89	897 0220	0275	0330	0385	0440	0495	0550	0605	0660	0715
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92	1871	1926	1981	2036	2091	2146	2201	2256	2311	2366
93	2421	2476	2531	2586	2641	2696	2751	2806	2861	2916
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23		8897	8951	9006	9061	9116	9171	9225	9280	9335	9390
24		9445	9499	9554	9609	9664	9719	9774	9828	9883	9938
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26		0541	0595	0650	0705	0760	0815	0869	0924	0979	1034
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28		1636	1691	1746	1801	1856	1910	1965	2020	2075	2129
29		2184	2239	2294	2348	2403	2458	2513	2568	2622	2677
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58		8039	8094	8148	8203	8258	8312	8367	8421	8476	8530
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63	0767	0822	0876	0931	[illegible]	1040	1094	1149	1203	1258
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72	5673	5727	5782	5836	5891	5945	6000	6054	6109	6163
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76	7851	7906	7960	8015	8069	8124	8178	8233	8287	8341
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84	2205	2260	2314	2368	2423	2477	2532	2586	2640	2695
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87	3837	3891	3946	4000	4054	4109	4163	4217	4272	4326
88	4381	4435	4489	4544	4598	4652	4707	4761	4815	4870
89	4924	4979	5033	5087	5142	5196	5250	5305	5359	5413
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91	6011	6066	6120	6174	6229	6283	6337	6392	6446	6500
92	6555	6609	6663	6718	6772	6826	6881	6935	6989	7044
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03	2528	2582	2637	2691	2745	2799	2854	2908	2962	3017
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08	5241	5295	5349	5403	5458	5512	5566	5620	5674	5729
09	5783	5837	5891	5946	6000	6054	6108	6163	6217	6271
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38	1480	1534	1588	1642	1696	1750	1804	1858	1912	1966
39	2020	2074	2128	2182	2236	2290	2344	2398	2452	2506
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42	3641	3695	3749	3803	3857	3911	3965	4019	4073	4127
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59	2812	2866	2919	2973	3027	3081	3135	3189	3243	3297
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62	4428	4482	4536	4590	4643	4697	4751	4805	4859	4913
63	4967	5020	5074	5128	5182	5236	5290	5344	5397	5451
64	5505	5559	5613	5667	5721	5774	5828	5882	5936	5990
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67	7121	7174	7228	7282	7336	7390	7444	7497	7551	7605
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69	8197	8251	8305	8359	8412	8466	8520	8574	8628	8682
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71	9273	9327	9381	9435	9489	9543	9596	9650	9704	9758
72	907 9812	9865	9919	9973	0027	0081	0134	0188	0242	0296
73	0350	0403	0457	0511	0565	0618	0672	0726	0780	0834
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76	1963	2017	2071	2124	2178	2232	2286	2340	2393	2447
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02	5922	5976	6030	6083	6137	6190	6244	6298	6351	6405
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26	8768	8822	8875	8929	8982	9036	9089	9142	9196	9249
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29	910 0371	0425	0478	0532	0555	0638	0692	0745	0799	0852
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32	1974	2027	2081	2134	2187	2241	2294	2348	2401	2454
33	2508	2561	2615	2668	2721	2775	2828	2882	2935	2988
34	3042	3095	3148	3202	3255	3309	3362	3415	3469	3522
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44	8378	8431	8484	8538	8591	8644	8698	8751	8804	8858
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47	911 9977	0030	0084	0137	0190	0244	0297	0350	0404	0457
48	0510	0564	0617	0670	0723	0777	0830	0883	0937	0990
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62	7966	8019	8072	8126	8179	8232	8285	8338	8392	8445
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69	1689	1742	1795	1848	1902	1955	2008	2061	2114	2167
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93	4430	4483	4536	4589	4642	4695	4748	4801	4854	4907
94	4960	5013	5066	5119	5172	5225	5278	5331	5384	5437
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07	1844	1897	1950	2003	2056	2109	2162	2215	2268	2321
08	2373	2426	2479	2532	2585	2638	2691	2744	2797	2850
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19	8190	8243	8296	8348	8401	8454	8507	8560	8613	8665
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28	2943	2996	3048	3101	3154	3207	3260	3312	3365	3418
29	3471	3523	3576	3629	3682	3734	3787	3840	3893	3946
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63	1378	1430	1483	1535	1588	1640	1693	1745	1798	1851
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8265	2429	2481	2534	2586	2639	2691	2744	2796	2849	2901
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68	4005	4057	4110	4162	4215	4267	4320	4372	4425	4477
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73	6630	6683	6735	6788	6840	6893	6945	6998	7050	7103
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76	8205	8257	8310	8362	8415	8467	8520	8572	8625	8677
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79	918 9779	9831	9884	9936	9989	0041	0094	0146	0198	0251
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92	6593	6645	6698	6750	6802	6855	6907	6960	7012	7064
93	7117	7169	7221	7274	7326	7378	7431	7483	7536	7588
94	7640	7693	7745	7797	7850	7902	7954	8007	8059	8112
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97	9211	9263	9316	9368	9420	9473	9525	9577	9630	9682
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73	8811	8863	8915	8967	9018	9070	9122	9174	9226	9278
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87	6066	6118	6170	6222	6274	6325	6377	6429	6481	6532
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89	7102	7154	7205	7257	7309	7361	7413	7464	7516	7568
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93	9172	9224	9276	9327	9379	9431	9483	9534	9586	9638
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37	1880	1932	1983	2035	2086	2138	2189	2241	2292	2344
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63	5243	5295	5345	5397	5449	5500	5551	5603	5654	5705
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19	3886	3937	3988	4039	4090	4141	4192	4243	4294	4345
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22	5415	5466	5517	5568	5619	5670	5721	5772	5823	5874
23	5925	5976	6027	6078	6129	6180	6231	6282	6333	6383
24	6434	6485	6536	6587	6638	6689	6740	6791	6842	6893
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27	7963	8014	8064	8115	8166	8217	8268	8319	8370	8421
28	8472	8523	8574	8625	8676	8727	8777	8828	8879	8930
29	8981	9032	9083	9134	9185	9236	9287	9338	9388	9439
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34	1526	1577	1628	1679	1730	1781	1832	1883	1933	1984
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44	6612	6663	6714	6765	6816	6867	6917	6968	7019	7070
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53	1185	1235	1286	1337	1388	1439	1489	1540	1591	1642
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58	3723	3774	3824	3875	3926	3977	4027	4078	4129	4180
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66	7781	7831	7882	7933	7983	8034	8085	8136	8186	8237
67	8288	8338	8389	8440	8490	8541	8592	8643	8693	8744
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74	1835	1885	1936	1987	2037	2088	2139	2189	2240	2291
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84	6897	6948	6998	7049	7099	7150	7201	7251	7302	7352
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93	1448	1499	1549	1600	1650	1701	1751	1802	1852	1903
94	1953	2004	2055	2105	2156	2206	2257	2307	2358	2408
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97	3469	3520	3570	3621	3671	3722	3772	3823	3873	3924
98	3974	4025	4075	4126	4176	4227	4277	4328	4378	4429
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06	8013	8064	8114	8165	8215	8266	8316	8367	8417	8468
07	8518	8568	8619	8669	8720	8770	8821	8871	8922	8972
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13	1544	1595	1645	1696	1746	1797	1847	1897	1948	1998
14	2049	2099	2150	2200	2250	2301	2351	2402	2452	2502
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16	3057	3107	3158	3208	3259	3309	3359	3410	3460	3511
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23	6584	6634	6685	6735	6785	6836	6886	6936	6987	7037
24	7087	7138	7188	7239	7289	7339	7390	7440	7490	7541
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26	8095	8145	8195	8246	8296	8346	8397	8447	8497	8548
27	8598	8648	8699	8749	8799	8850	8900	8950	9001	9051
28	9101	9152	9202	9252	9303	9353	9403	9454	9504	9554
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36	3126	3177	3227	3277	3327	3378	3428	3478	3529	3579
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38	4132	4182	4233	4283	4333	4383	4434	4484	4534	4584
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42	6143	6193	6243	6293	6344	6394	6444	6494	6545	6595
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44	7148	7198	7248	7298	7349	7399	7449	7499	7550	7600
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57	3674	3724	3775	3825	3875	3925	3975	4025	4076	4126
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62	6182	6232	6282	6332	6382	6432	6483	6533	6583	6633
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73	1693	1744	1794	1844	1894	1944	1994	2044	2094	2144
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54	2065	2115	2165	2214	2264	2313	2363	2413	2462	2512
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57	3553	3603	3653	3702	3752	3801	3851	3901	3950	4000
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93	1371	1420	1470	1519	1568	1618	1667	1716	1766	1815
94	1865	1914	1963	2013	2062	2112	2161	2210	2260	2309
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23	6163	6212	6261	6310	6360	6409	6458	6507	6557	6606
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46	7469	7518	7568	7617	7666	7715	7764	7813	7862	7911
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49	8942	8991	9040	9089	9138	9187	9236	9285	9335	9384
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54	1395	1444	1493	1542	1591	1640	1689	1739	1788	1837
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56	2376	2425	2474	2523	2572	2621	2670	2719	2768	2817
57	2866	2915	2963	3014	3063	3112	3161	3210	3259	3308
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64	6297	6346	6395	6444	6493	6542	6591	6640	6689	6738
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67	7767	7816	7865	7914	7963	8012	8061	8110	8159	8208
68	8257	8306	8355	8404	8453	8502	8551	8600	8649	8698
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83	5597	5646	5694	5743	5792	5841	5890	5939	5988	6037
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91	9506	9555	9604	9653	9701	9750	9799	9848	9897	9946
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78	1796	1844	1893	1941	1989	2038	2086	2135	2183	2231	
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88		6631	6679	6727	6776	6824	6872	6921	6969	7017	7065
89		7114	7162	7210	7259	7307	7355	7404	7452	7500	7549
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91		8080	8128	8177	8225	8273	8321	8370	8418	8466	8515
92		8563	8611	8660	8708	8756	8804	8853	8901	8949	8998
93		9046	9094	9143	9191	9239	9287	9336	9384	9432	9481
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06		5319	5368	5416	5464	5512	5561	5609	5657	5705	5753
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27		5434	5483	5531	5579	5627	5675	5723	5771	5819	5867
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77	9423	9471	9519	9567	9615	9663	9710	9758	9806	9854
78	958 9902	9950	9997	0045	0093	0141	0189	0237	0284	0332
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83	2293	2341	2389	2437	2484	2532	2580	2628	2676	2723
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88	4683	4731	4779	4827	4874	4922	4970	5018	5066	5113
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07	3753	3801	3849	3896	3944	3992	4039	4087	4135	4183
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23	1377	1424	1472	1520	1567	1615	1662	1710	1758	1805
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53	5635	5682	5730	5777	5824	5872	5919	5967	6014	6062
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66	1799	1846	1893	1941	1988	2036	2083	2130	2178	2225
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13	4011	4058	4105	4152	4199	4246	4294	4341	4388	4435
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28	1076	1123	1170	1217	1264	1311	1358	1405	1452	1499
29	1546	1594	1641	1688	1736	1782	1829	1876	1923	1970
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31	2488	2535	2582	2629	2676	2723	2770	2817	2864	2911
32	2958	3005	3052	3099	3146	3193	3240	3287	3334	3381
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34	3899	3946	3993	4040	4087	4134	4181	4228	4275	4322
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39	6250	6297	6344	6391	6438	6485	6532	6579	6626	6673
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42	7660	7707	7754	7801	7848	7895	7942	7989	8036	8083
43	8130	8177	8224	8270	8317	8364	8411	8458	8505	8552
44	8599	8646	8693	8740	8787	8834	8881	8928	8975	9022
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46	9539	9586	9633	9680	9727	9774	9821	9868	9915	9962
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57	4703	4750	4796	4843	4890	4937	4984	5031	5078	5125
58	5172	5219	5266	5312	5359	5406	5453	5500	5547	5594
59	5641	5688	5735	5782	5828	5875	5922	5969	6016	6063
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63	7517	7564	7610	7657	7704	7751	7798	7845	7892	7939
64	7985	8032	8079	8126	8173	8220	8267	8314	8360	8407
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66	8923	8970	9017	9064	9110	9157	9204	9251	9298	9345
67	9392	9438	9485	9532	9579	9626	9673	9720	9767	9813
68	9860	9907	9954	0001	0048	0095	0141	0188	0235	0282
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72	1734	1781	1828	1875	1922	1968	2015	2062	2109	2156
73	2203	2249	2296	2343	2390	2437	2484	2530	2577	2624
74	2671	2718	2765	2811	2858	2905	2952	2999	3046	3092
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76	3607	3654	3701	3748	3795	3841	3888	3935	3982	4029
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82	6416	6462	6509	6556	6603	6650	6696	6743	6790	6837
83	6884	6930	6977	7024	7071	7117	7164	7211	7258	7305
84	7351	7398	7445	7492	7538	7585	7632	7679	7725	7772
9285	7819	7865	7913	7959	8006	8053	8100	8146	8193	8240
86	8287	8334	8380	8427	8474	8521	8567	8614	8661	8708
87	8754	8801	8848	8895	8942	8988	9035	9082	9129	9175
88	9222	9269	9316	9362	9409	9456	9503	9549	9596	9643
89	968 9690	9736	9783	9830	9877	9923	9970	0017	0064	0110
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92	1092	1139	1185	1232	1279	1326	1372	1419	1466	1513
93	1559	1606	1653	1700	1746	1793	1840	1886	1933	1980
94	2027	2073	2120	2167	2214	2260	2307	2354	2400	2447
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96	2961	3008	3055	3101	3148	3195	3241	3288	3335	3382
97	3428	3475	3522	3568	3615	3662	3709	3755	3802	3849
98	3895	3942	3989	4036	4082	4129	4176	4222	4269	4316
99	4362	4409	4456	4503	4549	4596	4643	4689	4736	4783
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01	5296	5343	5390	5437	5483	5530	5577	5623	5670	5717
02	5763	5810	5857	5903	5950	5997	6043	6090	6137	6184
03	6230	6277	6324	6370	6417	6464	6510	6557	6604	6650
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17	2761	2808	2854	2901	2947	2994	3041	3087	3134	3180
18	3227	3274	3320	3367	3413	3460	3507	3553	3600	3647
19	3693	3740	3786	3833	3880	3926	3973	4019	4066	4113
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21	4625	4672	4718	4765	4811	4858	4905	4951	4998	5044
22	5091	5138	5184	5231	5277	5324	5371	5417	5464	5510
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32	9747	9794	9840	9887	9933	9980	0027	0073	0120	0166
33	970 0213	0259	0306	0352	0399	0445	0492	0538	0585	0631
34	0678	0724	0771	0818	0864	0911	0957	1004	1050	1097
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36	1608	1655	1701	1748	1794	1841	1888	1934	1981	2027
37	2074	2120	2167	2213	2260	2306	2353	2399	2446	2492
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42	4399	4445	4492	4538	4585	4631	4678	4724	4771	4817
43	4863	4910	4956	5003	5049	5096	5142	5189	5235	5282
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46	6258	6304	6351	6397	6444	6490	6537	6583	6629	6676
47	6722	6769	6815	6862	6908	6955	7001	7048	7094	7141
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49	7652	7698	7745	7791	7837	7884	7930	7977	8023	8070
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51	8581	8627	8673	8720	8766	8813	8859	8906	8952	8999
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53	9509	9556	9602	9649	9695	9742	9788	9834	9881	9927
54	971 9974	0020	0067	0113	0159	0206	0252	0299	0345	0391
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56	0902	0949	0995	1041	1088	1134	1181	1227	1273	1320
57	1366	1413	1459	1506	1552	1598	1645	1691	1738	1784
58	1830	1877	1923	1970	2016	2062	2109	2155	2202	2248
59	2294	2341	2387	2434	2480	2526	2573	2619	2666	2712
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62	3686	3733	3779	3826	3872	3918	3965	4011	4057	4104
63	4150	4197	4243	4289	4336	4382	4429	4475	4521	4568
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67	6005	6052	6098	6144	6191	6237	6283	6330	6376	6422
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69	6932	6979	7025	7071	7118	7164	7211	7257	7303	7350
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72	8323	8369	8415	8462	8508	8554	8601	8647	8694	8740
73	8786	8833	8879	8925	8972	9018	9064	9111	9157	9203
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77	0639	0685	0732	0778	0824	0871	0917	0963	1010	1056
78	1102	1149	1195	1241	1288	1334	1380	1426	1473	1519
79	1565	1612	1658	1704	1751	1797	1843	1889	1936	1982
9380	2028	2075	2121	2167	2214	2260	2306	2352	2399	2445
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82	2954	3001	3047	3093	3139	3186	3232	3278	3325	3371
83	3417	3463	3510	3556	3602	3649	3695	3741	3787	3834
84	3880	3926	3973	4019	4065	4111	4158	4204	4250	4296
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87	5268	5314	5361	5407	5453	5500	5546	5592	5638	5685
88	5731	5777	5823	5870	5916	5962	6008	6055	6101	6147
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92	7581	7627	7673	7720	7766	7812	7858	7905	7951	7997
93	8043	8089	8136	8182	8228	8274	8321	8367	8413	8459
94	8505	8552	8598	8644	8690	8737	8783	8829	8875	8922
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97	973 9892	9938	9985	0031	0077	0123	0170	0216	0262	0308
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03	2664	2711	2757	2803	2849	2895	2941	2988	3034	3080
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06	4050	4096	4142	4188	4234	4281	4327	4373	4419	4466
07	4511	4558	4604	4650	4696	4742	4788	4835	4881	4927
08	4973	5019	5065	5112	5158	5204	5250	5296	5342	5389
09	5435	5481	5527	5573	5619	5665	5712	5758	5804	5850
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13	7281	7327	7373	7419	7465	7511	7557	7604	7650	7696
14	7742	7788	7834	7880	7926	7973	8019	8065	8111	8157
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16	8664	8711	8757	8803	8849	8895	8941	8987	9033	9080
17	9126	9172	9218	9264	9310	9356	9402	9449	9495	9541
18	974 9587	9633	9679	9725	9771	9817	9864	9910	9956	0002
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21	0970	1016	1062	1108	1154	1201	1247	1293	1339	1385
22	1431	1477	1523	1569	1615	1661	1708	1754	1800	1846
23	1892	1938	1984	2030	2076	2122	2168	2215	2261	2307
24	2353	2399	2445	2491	2537	2583	2629	2675	2721	2768
9425	2814	2860	2906	2952	2998	3044	3090	3136	3182	3228
26	3274	3320	3367	3413	3459	3505	3551	3597	3643	3689
27	3735	3781	3827	3873	3919	3966	4012	4058	4104	4150
28	4196	4242	4288	4334	4380	4426	4472	4518	4564	4610
29	4656	4702	4748	4795	4841	4887	4933	4979	5025	5071
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31	5577	5623	5670	5716	5762	5808	5854	5900	5946	5992
32	6038	6084	6130	6176	6222	6268	6314	6360	6406	6452
33	6498	6544	6590	6636	6683	6729	6775	6821	6867	6913
34	6959	7005	7051	7097	7143	7189	7235	7281	7327	7373
9435	7419	7465	7511	7557	7603	7649	7695	7741	7787	7833
36	7879	7925	7971	8017	8063	8109	8156	8201	8248	8294
37	8340	8386	8432	8478	8524	8570	8616	8662	8708	8754
38	8800	8846	8892	8938	8984	9030	9076	9122	9168	9214
39	9260	9306	9352	9398	9444	9490	9536	9582	9628	9674
9440	975 9720	9766	9812	9858	9904	9950	9996	0042	0088	0134
41	0180	0226	0272	0318	0364	0410	0456	0502	0548	0594
42	0640	0686	0732	0778	0824	0870	0916	0962	1008	1054
43	1100	1146	1192	1238	1284	1330	1376	1422	1468	1514
44	1560	1606	1652	1698	1744	1790	1836	1882	1928	1974
9445	2020	2066	2112	2158	2204	2250	2296	2341	2387	2433
46	2479	2525	2571	2617	2663	2709	2755	2801	2847	2893
47	2939	2985	3031	3077	3123	3169	3215	3261	3307	3353
48	3399	3445	3491	3537	3583	3629	3675	3721	3767	3813
49	3858	3904	3950	3996	4042	4088	4134	4180	4226	4272
9450	4318	4364	4410	4456	4502	4548	4594	4640	4686	4732
51	4778	4824	4870	4915	4961	5007	5053	5099	5145	5191
52	5237	5283	5329	5375	5421	5467	5513	5559	5605	5651
53	5697	5743	5788	5834	5880	5926	5972	6018	6064	6110
54	6156	6202	6248	6294	6340	6386	6432	6478	6523	6569
9455	6615	6661	6707	6753	6799	6845	6891	6937	6983	7029
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66	1665	1711	1757	1803	1849	1894	1940	1986	2032	2078
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74	5334	5380	5425	5471	5517	5563	5609	5655	5701	5746
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77	6709	6755	6800	6846	6892	6938	6984	7030	7075	7121
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81	8541	8587	8633	8679	8725	8770	8816	8862	8908	8954
82	9000	9045	9091	9137	9183	9229	9274	9320	9366	9412
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87	1289	1335	1381	1426	1472	1518	1564	1609	1655	1701
88	1747	1793	1838	1884	1930	1976	2021	2067	2113	2159
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92	3577	3623	3669	3715	3760	3806	3852	3898	3943	3989
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07	0435	0481	0526	0572	0618	0663	0709	0755	0800	0846
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18	5457	5503	5548	5594	5640	5685	5731	5776	5822	5868
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23	7738	7783	7829	7875	7920	7966	8011	8057	8103	8148
24	8194	8239	8285	8331	8376	8422	8467	8513	8559	8604
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26	9106	9151	9197	9243	9288	9334	9379	9425	9470	9516
27	9562	9607	9653	9698	9744	9790	9836	9881	9926	9972
28	979 0017	0063	0109	0154	0200	0245	0291	0337	0382	0428
29	0473	0519	0564	0610	0656	0701	0747	0792	0838	0883
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43	6849	6895	6940	6986	7031	7077	7122	7168	7213	7259
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73	0481	0526	0571	0617	0662	0707	0753	0798	0844	0889
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87	6827	6873	6918	6963	7008	7054	7099	7144	7190	7235
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92	9092	9137	9182	9228	9273	9318	9363	9409	9454	9499
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94	982 9997	0042	0088	0133	0178	0223	0269	0314	0359	0405
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98	1807	1853	1898	1943	1988	2034	2079	2124	2169	2215
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02	3617	3662	3707	3753	3798	3843	3888	3934	3979	4024
03	4069	4115	4160	4205	4250	4296	4341	4386	4431	4476
04	4522	4567	4612	4657	4702	4748	4793	4838	4883	4928
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06	5426	5471	5516	5561	5607	5652	5697	5742	5787	5833
07	5878	5923	5968	6014	6059	6104	6149	6194	6240	6285
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13	8589	8635	8680	8725	8770	8815	8860	8906	8951	8996
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16	983 9945	9990	0035	0080	0125	0170	0216	0261	0306	0351
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21	2202	2247	2292	2338	2383	2428	2473	2518	2563	2608
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26	4459	4504	4549	4594	4639	4684	4729	4774	4819	4865
27	4910	4955	5000	5045	5090	5136	5180	5225	5271	5316
28	5361	5406	5451	5496	5541	5586	5631	5677	5722	5767
29	5812	5857	5902	5947	5992	6037	6082	6128	6173	6218
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31	6714	6759	6804	6849	6894	6939	6984	7029	7075	7120
32	7165	7210	7255	7300	7345	7390	7436	7480	7525	7571
33	7616	7661	7706	7751	7796	7841	7886	7931	7976	8021
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37	9419	9464	9509	9554	9599	9644	9689	9734	9779	9824
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44	2572	2617	2662	2707	2752	2797	2842	2887	2932	2977
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46	3473	3518	3563	3608	3653	3698	3743	3788	3833	3878
47	3923	3968	4013	4058	4103	4148	4193	4238	4283	4328
48	4373	4418	4463	4508	4553	4598	4643	4688	4733	4778
49	4823	4868	4913	4958	5003	5048	5093	5138	5183	5228
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54	7073	7118	7163	7208	7253	7298	7343	7388	7433	7478
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56	7973	8018	8063	8107	8152	8197	8242	8287	8332	8377
57	8422	8467	8512	8557	8602	8647	8692	8737	8782	8827
58	8872	8917	8962	9007	9052	9097	9142	9187	9232	9277
59	9322	9367	9412	9457	9502	9546	9591	9636	9681	9726
9660	985 9771	9816	9861	9906	9951	9996	0041	0086	0131	0176
61	0221	0266	0311	0356	0401	0446	0491	0535	0580	0625
62	0670	0715	0760	0805	0850	0895	0940	0985	1030	1075
63	1120	1165	1210	1255	1300	1345	1389	1434	1479	1524
64	1569	1614	1659	1704	1749	1794	1839	1884	1929	1974
9665	2019	2064	2108	2153	2198	2243	2288	2333	2378	2423
66	2468	2513	2558	2603	2648	2693	2737	2782	2827	2872
67	2917	2962	3007	3052	3097	3142	3187	3232	3277	3321
68	3366	3411	3456	3501	3546	3591	3636	3681	3726	3771
69	3816	3861	3905	3950	3995	4040	4085	4130	4175	4220
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71	4714	4759	4804	4849	4893	4938	4983	5028	5073	5118
72	5163	5208	5253	5298	5342	5387	5432	5477	5522	5567
73	5612	5657	5702	5747	5791	5836	5881	5926	5971	6016
74	6061	6106	6151	6196	6240	6285	6330	6375	6420	6465
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76	6959	7003	7048	7093	7138	7183	7228	7273	7318	7363
77	7407	7452	7497	7542	7587	7632	7677	7722	7766	7811
78	7856	7901	7946	7991	8036	8081	8125	8170	8215	8260
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81	9202	9247	9292	9337	9382	9426	9471	9516	9561	9606
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87	1893	1938	1983	2027	2072	2117	2162	2207	2252	2296
88	2341	2386	2431	2476	2521	2566	2610	2655	2700	2745
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93	4582	4627	4672	4717	4761	4806	4851	4896	4941	4985
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68	8057	8101	8145	8190	8234	8279	8323	8368	8412	8457
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92	8714	8758	8803	8847	8891	8936	8980	9025	9069	9113
93	9158	9202	9246	9291	9335	9379	9424	9468	9512	9557
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48		3480	3524	3569	3613	3657	3701	3745	3789	3833	3877
49		3921	3965	4010	4054	4098	4142	4186	4230	4274	4318
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53		5685	5729	5773	5817	5861	5906	5949	5993	6037	6082
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86	995 0206	0250	0294	0338	0382	0426	0470	0514	0557	0601
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92	2841	2885	2929	2973	3017	3061	3104	3148	3192	3236
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97	5036	5080	5123	5167	5211	5255	5299	5343	5387	5431
98	5474	5518	5562	5606	5650	5694	5738	5782	5825	5869
99	5913	5957	6001	6045	6089	6133	6176	6220	6264	6308
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03	7668	7712	7756	7799	7843	7887	7931	7975	8019	8062
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09	996 0298	0342	0386	0430	0474	0517	0561	0605	0649	0693
9910	0737	0780	0824	0868	0912	0956	0999	1043	1087	1131
11	1175	1219	1262	1306	1350	1394	1438	1481	1525	1569
12	1613	1657	1701	1744	1788	1832	1876	1920	1963	2007
13	2051	2095	2139	2182	2226	2270	2314	2358	2402	2445
14	2489	2533	2577	2621	2664	2708	2752	2796	2840	2883
9915	2927	2971	3015	3059	3102	3146	3190	3234	3278	3321
16	3365	3409	3453	3497	3540	3584	3628	3672	3716	3759
17	3803	3847	3891	3935	3978	4022	4066	4110	4153	4197
18	4241	4285	4329	4372	4416	4460	4504	4548	4591	4635
19	4679	4723	4766	4810	4854	4898	4942	4985	5029	5073
9920	5117	5161	5204	5248	5292	5336	5379	5423	5467	5511
21	5554	5598	5642	5686	5730	5773	5817	5861	5905	5948
22	5992	6036	6080	6124	6167	6211	6255	6299	6342	6386
23	6430	6474	6517	6561	6605	6649	6693	6736	6780	6824
24	6868	6911	6955	6999	7043	7086	7130	7174	7218	7261
9925	7305	7349	7393	7436	7480	7524	7568	7611	7655	7699
26	7743	7786	7830	7874	7918	7961	8005	8049	8093	8136
27	8180	8224	8268	8311	8355	8399	8443	8486	8530	8574
28	8618	8661	8705	8749	8793	8836	8880	8924	8968	9011
29	9055	9099	9143	9186	9230	9274	9318	9361	9405	9449
9930	9492	9536	9580	9624	9667	9711	9755	9799	9842	9886
31	997 9930	9974	0017	0061	0105	0148	0192	0236	0280	0323
32	0367	0411	0455	0498	0542	0586	0629	0673	0717	0761
33	0804	0848	0892	0936	0979	1023	1067	1110	1154	1198
34	1242	1285	1329	1373	1416	1460	1504	1548	1591	1635
9935	1679	1722	1766	1810	1854	1897	1941	1985	2028	2072
36	2116	2160	2203	2247	2291	2334	2378	2422	2465	2509
37	2553	2597	2640	2684	2728	2771	2815	2859	2903	2946
38	2990	3034	3077	3121	3165	3208	3252	3296	3340	3383
39	3427	3471	3514	3558	3602	3645	3689	3733	3776	3820
N.	0	1	2	3	4	5	6	7	8	9

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9940	997 3864	3908	3951	3995	4039	4082	4126	4170	4213	4257
41	4301	4344	4388	4432	4475	4519	4563	4607	4650	4694
42	4738	4781	4825	4869	4912	4956	5000	5043	5087	5131
43	5174	5218	5262	5305	5349	5393	5436	5480	5524	5567
44	5611	5655	5699	5742	5786	5830	5873	5917	5961	6004
9945	6048	6092	6136	6179	6223	6266	6310	6354	6397	6441
46	6485	6528	6572	6616	6659	6703	6747	6790	6834	6878
47	6921	6965	7009	7052	7096	7139	7183	7227	7270	7314
48	7358	7401	7445	7489	7532	7576	7620	7663	7707	7751
49	7794	7838	7882	7925	7969	8013	8056	8100	8144	8187
9950	8231	8274	8318	8362	8405	8449	8493	8536	8580	8624
51	8667	8711	8755	8798	8842	8886	8929	8973	9016	9060
52	9104	9147	9191	9235	9278	9322	9365	9409	9453	9496
53	9540	9584	9627	9671	9715	9758	9802	9845	9889	9933
54	998 9976	0020	0064	0107	0151	0195	0238	0282	0326	0369
9955	0413	0456	0500	0544	0587	0631	0674	0718	0762	0805
56	0849	0893	0936	0980	1023	1067	1111	1154	1198	1241
57	1285	1329	1372	1416	1460	1503	1547	1590	1634	1678
58	1721	1765	1808	1852	1896	1939	1983	2026	2070	2114
59	2157	2201	2245	2288	2332	2375	2419	2463	2506	2550
9960	2593	2637	2681	2724	2768	2811	2855	2899	2942	2986
61	3029	3073	3117	3160	3204	3247	3291	3335	3378	3422
62	3465	3509	3553	3596	3640	3683	3727	3771	3814	3858
63	3901	3945	3988	4032	4076	4119	4163	4206	4250	4294
64	4337	4381	4424	4468	4512	4555	4599	4642	4686	4729
9965	4773	4817	4860	4904	4947	4991	5035	5078	5122	5165
66	5209	5252	5296	5340	5383	5427	5470	5514	5557	5601
67	5645	5688	5732	5775	5819	5862	5906	5950	5993	6037
68	6080	6124	6167	6211	6255	6298	6342	6385	6429	6472
69	6516	6560	6603	6647	6690	6734	6777	6821	6864	6908
9970	6952	6995	7039	7082	7126	7169	7213	7256	7300	7344
71	7387	7431	7474	7518	7561	7605	7648	7692	7736	7779
72	7823	7866	7910	7953	7997	8040	8084	8128	8171	8215
73	8258	8302	8345	8389	8432	8476	8519	8563	8607	8650
74	8694	8737	8781	8824	8868	8911	8955	8998	9042	9086
9975	9129	9173	9216	9260	9303	9347	9390	9434	9477	9521
76	9564	9608	9651	9695	9739	9782	9826	9869	9913	9956
77	999 0000	0043	0087	0130	0174	0217	0261	0304	0348	0391
78	0435	0479	0522	0566	0609	0653	0696	0740	0783	0827
79	0870	0914	0957	1001	1044	1088	1131	1175	1218	1262
9980	1305	1349	1392	1436	1479	1523	1567	1610	1654	1697
81	1741	1784	1828	1871	1915	1958	2002	2045	2089	2132
82	2176	2219	2263	2306	2350	2393	2437	2480	2524	2567
83	2611	2654	2698	2741	2785	2828	2872	2915	2959	3002
84	3046	3089	3133	3176	3220	3263	3307	3350	3394	3437
9985	3481	3524	3568	3611	3655	3698	3742	3785	3829	3872
86	3916	3959	4003	4046	4090	4133	4177	4220	4264	4307
87	4350	4394	4437	4481	4524	4568	4611	4655	4698	4742
88	4785	4829	4872	4916	4959	5003	5046	5090	5133	5177
89	5220	5264	5307	5351	5394	5438	5481	5524	5568	5611
9990	5655	5698	5742	5785	5829	5872	5916	5959	6003	6046
91	6090	6133	6177	6220	6263	6307	6350	6394	6437	6481
92	6524	6568	6611	6655	6698	6742	6785	6828	6872	6915
93	6959	7002	7046	7089	7133	7176	7220	7263	7307	7350
94	7393	7437	7480	7524	7567	7611	7654	7698	7741	7785
9995	7828	7871	7915	7958	8002	8045	8089	8132	8176	8219
96	8262	8306	8349	8393	8436	8480	8523	8567	8610	8653
97	8697	8740	8784	8827	8871	8914	8958	9001	9044	9088
98	9131	9175	9218	9262	9305	9349	9392	9436	9479	9522
99	9566	9609	9653	9696	9739	9783	9826	9870	9913	9957
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LOGARITHMI

FUNCTIONUM TRIGONOMETRICARUM.

LOGARITHMS

OF THE TRIGONOMETRIC FUNCTIONS.

LOGARITHMES

DES FONCTIONS TRIGONOMETRIQUES.

LOGARITHMEN

DER TRIGONOMETRISCHEN FUNCTIONEN.

LOGARITMOS

DE LAS FUNCTIONOS TRIGONOMETRICAS.

″	0′	1′	2′	3′	4′	5′	6′	″
0		6.4637261	6.7647561	6.9408473	7.0657860	7.1626960	7.2418771	60
1	4.6856749	6.4709047	6.7683602	6.9432534	7.0675918	7.1641412	7.2430818	59
2	4.9865019	6.4779665	6.7719247	6.9456162	7.0693901	7.1655817	7.2442832	58
3	5.1024361	6.4845154	6.7754800	6.9480259	7.0711810	7.1670173	7.2454813	57
4	5.2076349	6.4917548	6.7789955	6.9503926	7.0729646	7.1684483	7.2466760	56
5	5.3845449	6.4984832	6.7824849	6.9527465	7.0747408	7.1698745	7.2478675	55
6	5.4070261	6.5051188	6.7859454	6.9550878	7.0765099	7.1712961	7.2490557	54
7	5.5065729	6.5116457	6.7893788	6.9574164	7.0782717	7.1727131	7.2502407	53
8	5.5886647	6.5180838	6.7927848	6.9597327	7.0800264	7.1741254	7.2514225	52
9	5.6398174	6.5244239	6.7961645	6.9620366	7.0817741	7.1755332	7.2526010	51
10	5.6859749	6.5306729	6.7995182	6.9643284	7.0835148	7.1769364	7.2537764	50
11	5.7269678	6.5368352	6.8028464	6.9666082	7.0852485	7.1783351	7.2549485	49
12	5.7647561	6.5429074	6.8061484	6.9688760	7.0869753	7.1797293	7.2561176	48
13	5.7995182	6.5488977	6.8094253	6.9711321	7.0886953	7.1811190	7.2572835	47
14	5.8317029	6.5548066	6.8126795	6.9733765	7.0904085	7.1825043	7.2584462	46
15	5.8616661	6.5606361	6.8159086	6.9756094	7.0921149	7.1838853	7.2596059	45
16	5.8896948	6.5663884	6.8191137	6.9778309	7.0938147	7.1852618	7.2607626	44
17	5.9160238	6.5720636	6.8222954	6.9800410	7.0955079	7.1866340	7.2619160	43
18	5.9408474	6.5776635	6.8254539	6.9822400	7.0971945	7.1880018	7.2630664	42
19	5.9643285	6.5832019	6.8285896	6.9844279	7.0988746	7.1893654	7.2642138	41
20	5.9866049	6.5886648	6.8317029	6.9866048	7.1005481	7.1907247	7.2653582	40
21	6.0077942	6.5940599	6.8347939	6.9887709	7.1022153	7.1920797	7.2664996	39
22	6.0279975	6.5993887	6.8378632	6.9909262	7.1038760	7.1934306	7.2676380	38
23	6.0473027	6.6046525	6.8409109	6.9930708	7.1055305	7.1947772	7.2687734	37
24	6.0657361	6.6098541	6.8439373	6.9952050	7.1071787	7.1961197	7.2699058	36
25	6.0835149	6.6149938	6.8469428	6.9973287	7.1088206	7.1974580	7.2710353	35
26	6.1005482	6.6200733	6.8499277	6.9994422	7.1104564	7.1987923	7.2721619	34
27	6.1169386	6.6250941	6.8528922	7.0015451	7.1120860	7.2001224	7.2732856	33
28	6.1327329	6.6300575	6.8558365	7.0036381	7.1137096	7.2014485	7.2744063	32
29	6.1479729	6.6349649	6.8587611	7.0057211	7.1153270	7.2027706	7.2755242	31
30	6.1626961	6.6398174	6.8616661	7.0077941	7.1169385	7.2040886	7.2766392	30
31	6.1769366	6.6446162	6.8645518	7.0098572	7.1185440	7.2054027	7.2777514	29
32	6.1907248	6.6493627	6.8674184	7.0119107	7.1201436	7.2067128	7.2788607	28
33	6.2040888	6.6540578	6.8702663	7.0139544	7.1217374	7.2080189	7.2799672	27
34	6.2170538	6.6587027	6.8730955	7.0159886	7.1233253	7.2093211	7.2810708	26
35	6.2296429	6.6632985	6.8759065	7.0180132	7.1249074	7.2106195	7.2821717	25
36	6.2418774	6.6678461	6.8786994	7.0200285	7.1264838	7.2119140	7.2832698	24
37	6.2537766	6.6723466	6.8814745	7.0220345	7.1280545	7.2132046	7.2843651	23
38	6.2653585	6.6768009	6.8842319	7.0240313	7.1296195	7.2144914	7.2854577	22
39	6.2766395	6.6812100	6.8869719	7.0260189	7.1311789	7.2157744	7.2865475	21
40	6.2876349	6.6855748	6.8896948	7.0279975	7.1327328	7.2170538	7.2876346	20
41	6.2983587	6.6898962	6.8924007	7.0299671	7.1342811	7.2183290	7.2887190	19
42	6.3088242	6.6941750	6.8950898	7.0319278	7.1358238	7.2196008	7.2898006	18
43	6.3190433	6.6984121	6.8977624	7.0338796	7.1373612	7.2208688	7.2908796	17
44	6.3290275	7.0026082	6.9004187	7.0358228	7.1388931	7.2221331	7.2919560	16
45	6.3387874	7.0067641	6.9030588	7.0377573	7.1404196	7.2233938	7.2930296	15
46	6.3483327	7.0108807	6.9056829	7.0396832	7.1419408	7.2246508	7.2941006	14
47	6.3576727	7.0149586	6.9082913	7.0416006	7.1434566	7.2259041	7.2951690	13
48	6.3668161	7.0189986	6.9108841	7.0435096	7.1449672	7.2271539	7.2962347	12
49	6.3757729	7.0230013	6.9134615	7.0454103	7.1464726	7.2284001	7.2972979	11
50	6.3845449	6.7269675	6.9160237	7.0473026	7.1479727	7.2296427	7.2983584	10
51	6.3931450	6.7308978	6.9185709	7.0491868	7.1494677	7.2308818	7.2994164	9
52	6.4015782	6.7347929	6.9211033	7.0510628	7.1509576	7.2321173	7.3004718	8
53	6.4098507	6.7386533	6.9236209	7.0529307	7.1524423	7.2333494	7.3015246	7
54	6.4179686	6.7424797	6.9261241	7.0547906	7.1539221	7.2345779	7.3025749	6
55	6.4259376	6.7462727	6.9286129	7.0566426	7.1553967	7.2358030	7.3036227	5
56	6.4337629	6.7500328	6.9310875	7.0584868	7.1568664	7.2370246	7.3046679	4
57	6.4414497	6.7537607	6.9335481	7.0603231	7.1583312	7.2382429	7.3057106	3
58	6.4490029	6.7574569	6.9359948	7.0621517	7.1597910	7.2394577	7.3067509	2
59	6.4564269	6.7611218	6.9384278	7.0639727	7.1612459	7.2406691	7.3077888	1
60	6.4637261	6.7647561	6.9408473	7.0657860	7.1626960	7.2418771	7.3088239	0
″	59′	58′	57′	56′	55′	54′	53′	″

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″	0′	1′	2′	3′	4′	5′	6′	″
0		6.4637261	6.7647562	6.9408475	7.0657863	7.1626964	7.2418778	60
1	4.6855749	6.4709047	6.7683603	6.9432536	7.0675921	7.1641417	7.2430825	59
2	4.9866049	6.4779660	6.7719347	6.9456464	7.0693904	7.1655821	7.2442839	58
3	5.1626961	6.4849154	6.7754800	6.9480261	7.0711813	7.1670178	7.2454819	57
4	5.2876349	6.4917549	6.7789966	6.9503928	7.0729649	7.1684488	7.2466767	56
5	5.3845449	6.4984882	6.7824849	6.9527467	7.0747412	7.1698750	7.2478682	55
6	5.4637261	6.5051188	6.7859455	6.9550879	7.0765102	7.1712966	7.2490564	54
7	5.5306749	6.5116497	6.7893778	6.9574166	7.0782720	7.1727136	7.2502414	53
8	5.5886649	6.5180838	6.7927849	6.9597328	7.0800268	7.1741259	7.2514231	52
9	5.6398174	6.5244240	6.7961646	6.9620368	7.0817744	7.1755337	7.2526017	51
10	5.6855749	6.5306749	6.7995183	6.9643286	7.0835151	7.1769369	7.2537771	50
11	5.7269576	6.5368332	6.8028462	6.9666084	7.0852488	7.1783366	7.2549492	49
12	5.7647561	6.5429074	6.8061489	6.9688762	7.0869756	7.1797298	7.2561183	48
13	5.7995182	6.5488977	6.8094266	6.9711323	7.0886956	7.1811195	7.2572842	47
14	5.8317029	6.5548066	6.8126797	6.9733767	7.0904088	7.1825049	7.2584469	46
15	5.8616661	6.5606361	6.8159087	6.9756096	7.0921153	7.1838858	7.2596066	45
16	5.8896948	6.5663885	6.8191138	6.9778311	7.0938151	7.1852623	7.2607632	44
17	5.9160238	6.5720656	6.8222955	6.9800412	7.0955082	7.1866345	7.2619167	43
18	5.9408474	6.5776695	6.8254540	6.9822402	7.0971948	7.1880023	7.2630672	42
19	5.9643288	6.5832020	6.8285897	6.9844281	7.0988749	7.1893659	7.2642146	41
20	5.9866049	6.5886649	6.8317030	6.9866050	7.1005484	7.1907252	7.2653590	40
21	6.0077942	6.5940599	6.8347940	6.9887711	7.1022156	7.1920802	7.2665003	39
22	6.0279976	6.5993887	6.8378633	6.9909264	7.1038764	7.1934311	7.2676387	38
23	6.0473027	6.6046530	6.8409110	6.9930710	7.1055309	7.1947777	7.2687741	37
24	6.0657861	6.6098542	6.8439374	6.9952052	7.1071790	7.1961202	7.2699066	36
25	6.0835149	6.6149938	6.8469429	6.9973289	7.1088210	7.1974586	7.2710361	35
26	6.1005482	6.6200733	6.8499278	6.9994422	7.1104567	7.1987928	7.2721627	34
27	6.1169386	6.6250941	6.8528923	7.0015454	7.1120864	7.2001230	7.2732863	33
28	6.1327329	6.6300576	6.8558367	7.0036383	7.1137099	7.2014491	7.2744071	32
29	6.1479729	6.6349649	6.8587612	7.0057213	7.1153274	7.2027711	7.2755250	31
30	6.1626961	6.6398174	6.8616662	7.0077943	7.1169389	7.2040892	7.2766400	30
31	6.1769366	6.6446163	6.8645519	7.0098575	7.1185444	7.2054032	7.2777521	29
32	6.1907248	6.6493627	6.8674185	7.0119109	7.1201440	7.2067133	7.2788615	28
33	6.2040888	6.6540578	6.8702664	7.0139546	7.1217378	7.2080195	7.2799679	27
34	6.2170338	6.6587027	6.8730957	7.0159888	7.1233257	7.2093217	7.2810716	26
35	6.2296429	6.6632985	6.8759066	7.0180135	7.1249078	7.2106201	7.2821725	25
36	6.2418774	6.6678461	6.8786995	7.0200288	7.1264842	7.2119145	7.2832706	24
37	6.2537766	6.6723466	6.8814745	7.0220348	7.1280549	7.2132052	7.2843659	23
38	6.2653585	6.6768010	6.8842320	7.0240315	7.1296197	7.2144920	7.2854585	22
39	6.2766356	6.6812101	6.8869721	7.0260191	7.1311790	7.2157750	7.2865483	21
40	6.2876349	6.6855749	6.8896949	7.0279977	7.1327332	7.2170542	7.2876354	20
41	6.2983587	6.6898963	6.8924008	7.0299673	7.1342815	7.2183296	7.2887198	19
42	6.3088242	6.6941751	6.8950900	7.0319280	7.1358242	7.2196014	7.2898015	18
43	6.3190433	6.6984121	6.8977626	7.0338799	7.1373616	7.2208694	7.2908806	17
44	6.3290275	7.0026084	6.9004188	7.0358231	7.1388935	7.2221337	7.2919568	16
45	6.3387874	7.0067642	6.9030589	7.0377576	7.1404200	7.2233944	7.2930304	15
46	6.3483327	7.0108808	6.9056830	7.0396835	7.1419412	7.2246514	7.2941015	14
47	6.3576727	7.0149587	6.9082914	7.0416009	7.1434570	7.2259048	7.2951698	13
48	6.3668161	7.0189987	6.9108842	7.0435099	7.1449675	7.2271545	7.2962356	12
49	6.3757729	7.0230014	6.9134617	7.0454108	7.1464730	7.2284007	7.2972987	11
50	6.3845449	7.0269676	6.9160239	7.0473029	7.1479732	7.2296433	7.2983593	10
51	6.3931450	7.0308979	6.9185711	7.0491870	7.1494681	7.2308824	7.2994173	9
52	6.4015782	7.0347929	6.9211034	7.0510630	7.1509580	7.2321180	7.3004727	8
53	6.4098507	7.0386534	6.9236211	7.0529310	7.1524428	7.2333500	7.3015255	7
54	6.4179680	6.7424798	6.9261242	7.0547909	7.1539225	7.2345786	7.3025758	6
55	6.4259375	6.7462728	6.9286130	7.0566429	7.1553972	7.2358036	7.3036236	5
56	6.4337649	6.7500329	6.9310875	7.0584871	7.1568669	7.2370253	7.3046688	4
57	6.4414497	6.7537608	6.9335482	7.0603234	7.1583316	7.2382435	7.3057115	3
58	6.4490029	6.7574569	6.9359950	7.0621520	7.1597914	7.2394583	7.3067517	2
59	6.4564267	6.7611219	6.9384280	7.0639730	7.1612464	7.2406698	7.3077895	1
60	6.4637261	6.7647562	6.9408475	7.0657863	7.1626964	7.2418778	7.3088248	0
″	59′	58′	57′	56′	55′	54′	53′	″

Log. co-tang. 89 deg.

″	7′	8′	9′	10′	11′	12′	13′	″
0	7.3088239	7.3658157	7.4179681	7.4637255	7.5051181	7.5429065	7.5776684	60
1	7.3098567	7.3677198	7.4187716	7.4644487	7.5057756	7.5436092	7.5782249	59
2	7.3108870	7.3685215	7.4196237	7.4651707	7.5064321	7.5441112	7.5787806	58
3	7.3119149	7.3692216	7.4203742	7.4658916	7.5070876	7.5447123	7.5793356	57
4	7.3129404	7.3704198	7.4211233	7.4666112	7.5077422	7.5453125	7.5798899	56
5	7.3139635	7.3713162	7.4219709	7.4673296	7.5083958	7.5459120	7.5804435	55
6	7.3149842	7.3722107	7.4227170	7.4680469	7.5090483	7.5465106	7.5809964	54
7	7.3160024	7.3731034	7.4235617	7.4687629	7.5096999	7.5471084	7.5815485	53
8	7.3170183	7.3739943	7.4243049	7.4694778	7.5103506	7.5477055	7.5821000	52
9	7.3180318	7.3748832	7.4251467	7.4701915	7.5110002	7.5483015	7.5826508	51
10	7.3190430	7.3757705	7.4259870	7.4709041	7.5116489	7.5488968	7.5832009	50
11	7.3200518	7.3766559	7.4267259	7.4716154	7.5122966	7.5494913	7.5837503	49
12	7.3210583	7.3775396	7.4275134	7.4723257	7.5129434	7.5500850	7.5842990	48
13	7.3220624	7.3784214	7.4282995	7.4730347	7.5135892	7.5506779	7.5848470	47
14	7.3230643	7.3793014	7.4290841	7.4737426	7.5142340	7.5512700	7.5853943	46
15	7.3240638	7.3801796	7.4298673	7.4744493	7.5148779	7.5518613	7.5859409	45
16	7.3250610	7.3810561	7.4306491	7.4751549	7.5155208	7.5524518	7.5864869	44
17	7.3260560	7.3819308	7.4314295	7.4758594	7.5161628	7.5530414	7.5870321	43
18	7.3270487	7.3828038	7.4322085	7.4765627	7.5168038	7.5536303	7.5875767	42
19	7.3280391	7.3836750	7.4329851	7.4772649	7.5174439	7.5542184	7.5881206	41
20	7.3290272	7.3845444	7.4337624	7.4779659	7.5180830	7.5548057	7.5886638	40
21	7.3300131	7.3854122	7.4345372	7.4786658	7.5187212	7.5553921	7.5892063	39
22	7.3309968	7.3862782	7.4353106	7.4793646	7.5193585	7.5559778	7.5897481	38
23	7.3319783	7.3871424	7.4360827	7.4800623	7.5199948	7.5565627	7.5902893	37
24	7.3329575	7.3880050	7.4368534	7.4807588	7.5206302	7.5571469	7.5908298	36
25	7.3339345	7.3888658	7.4376228	7.4814542	7.5212645	7.5577302	7.5913696	35
26	7.3349094	7.3897249	7.4383908	7.4821485	7.5218982	7.5583127	7.5919088	34
27	7.3358821	7.3905824	7.4391574	7.4828417	7.5225308	7.5588945	7.5924473	33
28	7.3368525	7.3914381	7.4399227	7.4835338	7.5231625	7.5594756	7.5929851	32
29	7.3378209	7.3922922	7.4406866	7.4842248	7.5237933	7.5600557	7.5935223	31
30	7.3387870	7.3931446	7.4414492	7.4849147	7.5244231	7.5606352	7.5940588	30
31	7.3397511	7.3939953	7.4422104	7.4856035	7.5250521	7.5612138	7.5945946	29
32	7.3407130	7.3948444	7.4429703	7.4862913	7.5256801	7.5617917	7.5951298	28
33	7.3416727	7.3956918	7.4437289	7.4869779	7.5263073	7.5623689	7.5956643	27
34	7.3426304	7.3965375	7.4444862	7.4876634	7.5269335	7.5629452	7.5961981	26
35	7.3435859	7.3973816	7.4452421	7.4883479	7.5275588	7.5635208	7.5967313	25
36	7.3445394	7.3982241	7.4459968	7.4890313	7.5281833	7.5640957	7.5972639	24
37	7.3454907	7.3990650	7.4467501	7.4897136	7.5288068	7.5646698	7.5977958	23
38	7.3464400	7.3999042	7.4475021	7.4903949	7.5294295	7.5652431	7.5983270	22
39	7.3473872	7.4007418	7.4482529	7.4910750	7.5300512	7.5658157	7.5988576	21
40	7.3483323	7.4015778	7.4490023	7.4917541	7.5306721	7.5663875	7.5993876	20
41	7.3492754	7.4024121	7.4497504	7.4924322	7.5312920	7.5669585	7.5999169	19
42	7.3502165	7.4032449	7.4504973	7.4931092	7.5319111	7.5675289	7.6004455	18
43	7.3511555	7.4040761	7.4512428	7.4937851	7.5325294	7.5680984	7.6009735	17
44	7.3520925	7.4049057	7.4519871	7.4944600	7.5331467	7.5686672	7.6015009	16
45	7.3530275	7.4057337	7.4527302	7.4951339	7.5337631	7.5692353	7.6020277	15
46	7.3539604	7.4065601	7.4534719	7.4958067	7.5343787	7.5698026	7.6025538	14
47	7.3548914	7.4073850	7.4542124	7.4964784	7.5349934	7.5703692	7.6030792	13
48	7.3558203	7.4082083	7.4549516	7.4971492	7.5356073	7.5709351	7.6036040	12
49	7.3567473	7.4090301	7.4556895	7.4978188	7.5362202	7.5715002	7.6041282	11
50	7.3576723	7.4098503	7.4564263	7.4984875	7.5368324	7.5720646	7.6046518	10
51	7.3585954	7.4106689	7.4571618	7.4991551	7.5374436	7.5726282	7.6051747	9
52	7.3595165	7.4114860	7.4578960	7.4998217	7.5380540	7.5731912	7.6056970	8
53	7.3604356	7.4123016	7.4586290	7.5004873	7.5386635	7.5737533	7.6062187	7
54	7.3613528	7.4131156	7.4593607	7.5011519	7.5392722	7.5743148	7.6067397	6
55	7.3622681	7.4139282	7.4600912	7.5018154	7.5398800	7.5748756	7.6072602	5
56	7.3631814	7.4147392	7.4608205	7.5024780	7.5404870	7.5754356	7.6077800	4
57	7.3640929	7.4155487	7.4615486	7.5031395	7.5410931	7.5759949	7.6082991	3
58	7.3650024	7.4163567	7.4622754	7.5038000	7.5416984	7.5765534	7.6088174	2
59	7.3659100	7.4171631	7.4630011	7.5044595	7.5423029	7.5771113	7.6093356	1
60	7.3668157	7.4179681	7.4637255	7.5051181	7.5429065	7.5776684	7.6098530	0
″	52′	51′	50′	49′	48′	47′	46′	″

″	7′	8′	9′	10′	11′	12′	13′	″
0	7.3088248	7.3668169	7.4179696	7.4637273	7.5051203	7.5429091	7.5776715	60
1	7.3098576	7.3677207	7.4187731	7.4644506	7.5057778	7.5435119	7.5782480	59
2	7.3108899	7.3686207	7.4196752	7.4651726	7.5064343	7.5441138	7.5788237	58
3	7.3119218	7.3695208	7.4205767	7.4658934	7.5070899	7.5447149	7.5793987	57
4	7.3129413	7.3704210	7.4211748	7.4666130	7.5077444	7.5453152	7.5798030	56
5	7.3139644	7.3713174	7.4219724	7.4673316	7.5083980	7.5459147	7.5804466	55
6	7.3149881	7.3722119	7.4227688	7.4680487	7.5090506	7.5465133	7.5809995	54
7	7.3160034	7.3731046	7.4235638	7.4687648	7.5097022	7.5471111	7.5815917	53
8	7.3170193	7.3739956	7.4243664	7.4694797	7.5103528	7.5477080	7.5821032	52
9	7.3180328	7.3748845	7.4251482	7.4701934	7.5110025	7.5483042	7.5826540	51
10	7.3190440	7.3757718	7.4259386	7.4709060	7.5116512	7.5488995	7.5832041	50
11	7.3200528	7.3766572	7.4267275	7.4716173	7.5122989	7.5494941	7.5837535	49
12	7.3210592	7.3775408	7.4275150	7.4723276	7.5129457	7.5500878	7.5843022	48
13	7.3220634	7.3784226	7.4283010	7.4730366	7.5135915	7.5506807	7.5848502	47
14	7.3230652	7.3793026	7.4290857	7.4737445	7.5142363	7.5512728	7.5853975	46
15	7.3240648	7.3801809	7.4298689	7.4744513	7.5148802	7.5518640	7.5859441	45
16	7.3250620	7.3810574	7.4306507	7.4751569	7.5155231	7.5524545	7.5864901	44
17	7.3260570	7.3819321	7.4314311	7.4758613	7.5161651	7.5530442	7.5870353	43
18	7.3270496	7.3828051	7.4322101	7.4765646	7.5168061	7.5536331	7.5875799	42
19	7.3280400	7.3836763	7.4329877	7.4772668	7.5174462	7.5542212	7.5881238	41
20	7.3290282	7.3845457	7.4337640	7.4779679	7.5180854	7.5548084	7.5886670	40
21	7.3300141	7.3854134	7.4345388	7.4786678	7.5187236	7.5553949	7.5892096	39
22	7.3309978	7.3862794	7.4353123	7.4793666	7.5193608	7.5559806	7.5897514	38
23	7.3319793	7.3871437	7.4360843	7.4800642	7.5199972	7.5565656	7.5902926	37
24	7.3329585	7.3880063	7.4368551	7.4807608	7.5206326	7.5571497	7.5908331	36
25	7.3339356	7.3888671	7.4376244	7.4814562	7.5212670	7.5577330	7.5913730	35
26	7.3349104	7.3897263	7.4383924	7.4821505	7.5219006	7.5583156	7.5919121	34
27	7.3358831	7.3905837	7.4391590	7.4828437	7.5225332	7.5588974	7.5924506	33
28	7.3368536	7.3914395	7.4399243	7.4835359	7.5231649	7.5594784	7.5929884	32
29	7.3378219	7.3922936	7.4406882	7.4842269	7.5237957	7.5600586	7.5935256	31
30	7.3387881	7.3931459	7.4414508	7.4849168	7.5244256	7.5606380	7.5940621	30
31	7.3397521	7.3939967	7.4422121	7.4856056	7.5250545	7.5612167	7.5945980	29
32	7.3407140	7.3948457	7.4429720	7.4862933	7.5256826	7.5617946	7.5951331	28
33	7.3416738	7.3956931	7.4437306	7.4869799	7.5263097	7.5623718	7.5956677	27
34	7.3426314	7.3965389	7.4444879	7.4876655	7.5269360	7.5629481	7.5962015	26
35	7.3435870	7.3973830	7.4452438	7.4883500	7.5275613	7.5635238	7.5967347	25
36	7.3445404	7.3982255	7.4459988	7.4890334	7.5281858	7.5640986	7.5972673	24
37	7.3454918	7.3990663	7.4467518	7.4897157	7.5288093	7.5646727	7.5977992	23
38	7.3464411	7.3999056	7.4475038	7.4903969	7.5294319	7.5652460	7.5983304	22
39	7.3473883	7.4007431	7.4482546	7.4910771	7.5300537	7.5658186	7.5988611	21
40	7.3483334	7.4015791	7.4490040	7.4917562	7.5306746	7.5663904	7.5993910	20
41	7.3492765	7.4024135	7.4497521	7.4924343	7.5312945	7.5669615	7.5999203	19
42	7.3502176	7.4032463	7.4504990	7.4931113	7.5319137	7.5675318	7.6004490	18
43	7.3511566	7.4040775	7.4512446	7.4937872	7.5325319	7.5681014	7.6009770	17
44	7.3520936	7.4049071	7.4519889	7.4944621	7.5331492	7.5686702	7.6015044	16
45	7.3530286	7.4057351	7.4527319	7.4951360	7.5337657	7.5692383	7.6020311	15
46	7.3539615	7.4065616	7.4534737	7.4958088	7.5343813	7.5698056	7.6025572	14
47	7.3548925	7.4073864	7.4542141	7.4964806	7.5349960	7.5703722	7.6030827	13
48	7.3558215	7.4082097	7.4549534	7.4971513	7.5356098	7.5709381	7.6036075	12
49	7.3567485	7.4090315	7.4556913	7.4978210	7.5362228	7.5715032	7.6041317	11
50	7.3576735	7.4098517	7.4564281	7.4984897	7.5368349	7.5720676	7.6046553	10
51	7.3585965	7.4106703	7.4571635	7.4991573	7.5374462	7.5726313	7.6051782	9
52	7.3595176	7.4114875	7.4578978	7.4998239	7.5380566	7.5731942	7.6057005	8
53	7.3604368	7.4123030	7.4586308	7.5004895	7.5386661	7.5737564	7.6062222	7
54	7.3613540	7.4131171	7.4593625	7.5011541	7.5392748	7.5743179	7.6067433	6
55	7.3622692	7.4139296	7.4600930	7.5018176	7.5398826	7.5748785	7.6072637	5
56	7.3631826	7.4147406	7.4608223	7.5024802	7.5404896	7.5754386	7.6077835	4
57	7.3640940	7.4155501	7.4615504	7.5031417	7.5410958	7.5759979	7.6083027	3
58	7.3650036	7.4163581	7.4622773	7.5038022	7.5417011	7.5765565	7.6088213	2
59	7.3659112	7.4171646	7.4630029	7.5044618	7.5423055	7.5771144	7.6093392	1
60	7.3668169	7.4179696	7.4637273	7.5051203	7.5429091	7.5776715	7.6098566	0
″	52′	51′	50′	49′	48′	47′	46′	″

″	14′	15′	16′	17′	18′	19′	20′	″
0	7.6098530	7.6398160	7.6678445	7.6941733	7.7189966	7.7424775	7.7647537	60
1	7.6103697	7.6402983	7.6682967	7.6945988	7.7193986	7.7428583	7.7651154	59
2	7.6108858	7.6407800	7.6687484	7.6950240	7.7198001	7.7432388	7.7654769	58
3	7.6114012	7.6412612	7.6691996	7.6954487	7.7202013	7.7436189	7.7658380	57
4	7.6119161	7.6417419	7.6696500	7.6958730	7.7206021	7.7439987	7.7661989	56
5	7.6124304	7.6422221	7.6701006	7.6962969	7.7210026	7.7443781	7.7665594	55
6	7.6129440	7.6427017	7.6705504	7.6967204	7.7214027	7.7447573	7.7669197	54
7	7.6134571	7.6431808	7.6709998	7.6971435	7.7218024	7.7451360	7.7672797	53
8	7.6139695	7.6436593	7.6714486	7.6975662	7.7222017	7.7455145	7.7676393	52
9	7.6144813	7.6441373	7.6718970	7.6979884	7.7226007	7.7458926	7.7679987	51
10	7.6149926	7.6446149	7.6723450	7.6984103	7.7229993	7.7462705	7.7683577	50
11	7.6155032	7.6450918	7.6727926	7.6988317	7.7233976	7.7466479	7.7687165	49
12	7.6160132	7.6455683	7.6732395	7.6992528	7.7237955	7.7470251	7.7690750	48
13	7.6165227	7.6460442	7.6736861	7.6996734	7.7241930	7.7474019	7.7694332	47
14	7.6170315	7.6465196	7.6741322	7.7000936	7.7245902	7.7477784	7.7697910	46
15	7.6175397	7.6469945	7.6745779	7.7005134	7.7249869	7.7481546	7.7701486	45
16	7.6180474	7.6474689	7.6750231	7.7009328	7.7253834	7.7485304	7.7705059	44
17	7.6185544	7.6479428	7.6754678	7.7013518	7.7257794	7.7489059	7.7708629	43
18	7.6190609	7.6484161	7.6759121	7.7017704	7.7261752	7.7492811	7.7712196	42
19	7.6195668	7.6488889	7.6763559	7.7021886	7.7265705	7.7496560	7.7715760	41
20	7.6200721	7.6493613	7.6767993	7.7026064	7.7269655	7.7500306	7.7719322	40
21	7.6205768	7.6498331	7.6772422	7.7030238	7.7273601	7.7504048	7.7722880	39
22	7.6210809	7.6503043	7.6776847	7.7034407	7.7277544	7.7507787	7.7726436	38
23	7.6215844	7.6507751	7.6781267	7.7038573	7.7281483	7.7511523	7.7729988	37
24	7.6220873	7.6512454	7.6785683	7.7042735	7.7285419	7.7515255	7.7733537	36
25	7.6225897	7.6517151	7.6790094	7.7046893	7.7289351	7.7518985	7.7737084	35
26	7.6230915	7.6521844	7.6794501	7.7051047	7.7293279	7.7522711	7.7740628	34
27	7.6235927	7.6526531	7.6798904	7.7055197	7.7297204	7.7526434	7.7744169	33
28	7.6240933	7.6531214	7.6803302	7.7059343	7.7301125	7.7530154	7.7747707	32
29	7.6245934	7.6535891	7.6807695	7.7063485	7.7305043	7.7533871	7.7751242	31
30	7.6250928	7.6540563	7.6812084	7.7067623	7.7308957	7.7537584	7.7754774	30
31	7.6255917	7.6545231	7.6816469	7.7071757	7.7312868	7.7541294	7.7758303	29
32	7.6260901	7.6549893	7.6820849	7.7075887	7.7316776	7.7545001	7.7761830	28
33	7.6265878	7.6554550	7.6825224	7.7080014	7.7320679	7.7548705	7.7765354	27
34	7.6270850	7.6559203	7.6829596	7.7084136	7.7324579	7.7552406	7.7768874	26
35	7.6275815	7.6563850	7.6833963	7.7088254	7.7328476	7.7556104	7.7772392	25
36	7.6280777	7.6568492	7.6838325	7.7092369	7.7332369	7.7559798	7.7775907	24
37	7.6285732	7.6573130	7.6842683	7.7096480	7.7336259	7.7563490	7.7779420	23
38	7.6290681	7.6577762	7.6847037	7.7100586	7.7340145	7.7567178	7.7782929	22
39	7.6295624	7.6582390	7.6851387	7.7104689	7.7344028	7.7570863	7.7786436	21
40	7.6300562	7.6587012	7.6855732	7.7108788	7.7347908	7.7574545	7.7789939	20
41	7.6305495	7.6591630	7.6860072	7.7112883	7.7351783	7.7578224	7.7793440	19
42	7.6310421	7.6596243	7.6864409	7.7116976	7.7355656	7.7581900	7.7796938	18
43	7.6315342	7.6600850	7.6868741	7.7121062	7.7359525	7.7585572	7.7800434	17
44	7.6320258	7.6605453	7.6873069	7.7125146	7.7363390	7.7589242	7.7803926	16
45	7.6325168	7.6610052	7.6877392	7.7129225	7.7367252	7.7592908	7.7807416	15
46	7.6330073	7.6614645	7.6881711	7.7133301	7.7371111	7.7596572	7.7810903	14
47	7.6334971	7.6619233	7.6886026	7.7137373	7.7374966	7.7600232	7.7814387	13
48	7.6339865	7.6623817	7.6890337	7.7141442	7.7378818	7.7603889	7.7817868	12
49	7.6344753	7.6628395	7.6894643	7.7145506	7.7382666	7.7607543	7.7821347	11
50	7.6349635	7.6632969	7.6898945	7.7149567	7.7386511	7.7611194	7.7824822	10
51	7.6354512	7.6637538	7.6903243	7.7153624	7.7390353	7.7614842	7.7828295	9
52	7.6359384	7.6642103	7.6907536	7.7157677	7.7394191	7.7618487	7.7831765	8
53	7.6364250	7.6646662	7.6911826	7.7161726	7.7398026	7.7622129	7.7835233	7
54	7.6369110	7.6651217	7.6916111	7.7165772	7.7401857	7.7625768	7.7838697	6
55	7.6373965	7.6655767	7.6920392	7.7169814	7.7405685	7.7629403	7.7842159	5
56	7.6378815	7.6660312	7.6924668	7.7173852	7.7409510	7.7633036	7.7845618	4
57	7.6383659	7.6664852	7.6928941	7.7177886	7.7413331	7.7636666	7.7849075	3
58	7.6388498	7.6669388	7.6933209	7.7181917	7.7417149	7.7640292	7.7852528	2
59	7.6393332	7.6673919	7.6937473	7.7185943	7.7420964	7.7643916	7.7855979	1
60	7.6398160	7.6678445	7.6941733	7.7189966	7.7424775	7.7647537	7.7859427	0
″	45′	44′	43′	42′	41′	40′	39′	″

″	14′	15′	16′	17′	18′	19′	20′	″
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1	7.6103733	7.6403024	7.6683014	7.6946042	7.7194045	7.7428649	7.7651228	59
2	7.6108894	7.6407842	7.6687531	7.6950293	7.7198061	7.7432454	7.7654843	58
3	7.6114049	7.6412654	7.6692043	7.6954541	7.7202073	7.7436255	7.7658454	57
4	7.6119197	7.6417461	7.6696551	7.6958784	7.7206081	7.7440053	7.7662063	56
5	7.6124340	7.6422264	7.6701053	7.6963023	7.7210086	7.7443848	7.7665669	55
6	7.6129477	7.6427059	7.6705552	7.6967258	7.7214087	7.7447640	7.7669271	54
7	7.6134607	7.6431850	7.6710045	7.6971489	7.7218084	7.7451428	7.7672871	53
8	7.6139732	7.6436635	7.6714534	7.6975716	7.7222078	7.7455212	7.7676468	52
9	7.6144850	7.6441416	7.6719018	7.6979938	7.7226068	7.7458994	7.7680061	51
10	7.6149963	7.6446191	7.6723498	7.6984157	7.7230054	7.7462772	7.7683652	50
11	7.6155069	7.6450961	7.6727973	7.6988371	7.7234037	7.7466547	7.7687240	49
12	7.6160169	7.6455725	7.6732443	7.6992582	7.7238016	7.7470319	7.7690825	48
13	7.6165264	7.6460485	7.6736909	7.6996788	7.7241991	7.7474087	7.7694407	47
14	7.6170352	7.6465239	7.6741371	7.7000990	7.7245963	7.7477852	7.7697986	46
15	7.6175435	7.6469988	7.6745827	7.7005189	7.7249931	7.7481614	7.7701562	45
16	7.6180511	7.6474732	7.6750279	7.7009383	7.7253895	7.7485372	7.7705135	44
17	7.6185582	7.6479471	7.6754727	7.7013573	7.7257856	7.7489128	7.7708705	43
18	7.6190647	7.6484204	7.6759170	7.7017759	7.7261813	7.7492880	7.7712272	42
19	7.6195705	7.6488933	7.6763608	7.7021941	7.7265767	7.7496629	7.7715836	41
20	7.6200758	7.6493656	7.6768042	7.7026119	7.7269717	7.7500374	7.7719398	40
21	7.6205805	7.6498374	7.6772471	7.7030293	7.7273663	7.7504117	7.7722956	39
22	7.6210847	7.6503087	7.6776896	7.7034463	7.7277606	7.7507856	7.7726512	38
23	7.6215882	7.6507795	7.6781317	7.7038629	7.7281545	7.7511592	7.7730064	37
24	7.6220911	7.6512497	7.6785733	7.7042791	7.7285481	7.7515325	7.7733614	36
25	7.6225935	7.6517195	7.6790144	7.7046949	7.7289413	7.7519054	7.7737161	35
26	7.6230953	7.6521888	7.6794551	7.7051103	7.7293342	7.7522780	7.7740705	34
27	7.6235965	7.6526577	7.6798953	7.7055253	7.7297267	7.7526504	7.7744246	33
28	7.6240972	7.6531258	7.6803351	7.7059399	7.7301188	7.7530224	7.7747784	32
29	7.6245972	7.6535935	7.6807745	7.7063541	7.7305106	7.7533940	7.7751319	31
30	7.6250967	7.6540608	7.6812134	7.7067679	7.7309020	7.7537654	7.7754851	30
31	7.6255956	7.6545275	7.6816519	7.7071813	7.7312931	7.7541364	7.7758381	29
32	7.6260939	7.6549937	7.6820899	7.7075944	7.7316839	7.7545072	7.7761907	28
33	7.6265917	7.6554595	7.6825275	7.7080070	7.7320742	7.7548776	7.7765431	27
34	7.6270889	7.6559247	7.6829646	7.7084193	7.7324643	7.7552477	7.7768952	26
35	7.6275855	7.6563895	7.6834013	7.7088311	7.7328540	7.7556174	7.7772470	25
36	7.6280816	7.6568537	7.6838376	7.7092426	7.7332433	7.7559869	7.7775985	24
37	7.6285771	7.6573174	7.6842734	7.7096537	7.7336323	7.7563560	7.7779498	23
38	7.6290720	7.6577807	7.6847088	7.7100643	7.7340209	7.7567249	7.7783007	22
39	7.6295664	7.6582435	7.6851438	7.7104746	7.7344092	7.7570934	7.7786514	21
40	7.6300602	7.6587057	7.6855783	7.7108846	7.7347972	7.7574616	7.7790018	20
41	7.6305534	7.6591675	7.6860124	7.7112941	7.7351848	7.7578295	7.7793519	19
42	7.6310461	7.6596288	7.6864460	7.7117032	7.7355720	7.7581971	7.7797017	18
43	7.6315382	7.6600896	7.6868792	7.7121120	7.7359589	7.7585644	7.7800513	17
44	7.6320298	7.6605499	7.6873120	7.7125203	7.7363455	7.7589313	7.7804005	16
45	7.6325208	7.6610097	7.6877444	7.7129283	7.7367317	7.7592980	7.7807495	15
46	7.6330113	7.6614690	7.6881763	7.7133359	7.7371176	7.7596643	7.7810982	14
47	7.6335012	7.6619279	7.6886078	7.7137432	7.7375031	7.7600304	7.7814466	13
48	7.6339906	7.6623863	7.6890389	7.7141500	7.7378883	7.7603961	7.7817948	12
49	7.6344793	7.6628441	7.6894695	7.7145565	7.7382731	7.7607615	7.7821426	11
50	7.6349676	7.6633015	7.6898997	7.7149625	7.7386577	7.7611266	7.7824902	10
51	7.6354553	7.6637585	7.6903295	7.7153682	7.7390418	7.7614915	7.7828375	9
52	7.6359424	7.6642149	7.6907589	7.7157736	7.7394257	7.7618560	7.7831845	8
53	7.6364290	7.6646709	7.6911878	7.7161785	7.7398091	7.7622202	7.7835313	7
54	7.6369151	7.6651263	7.6916163	7.7165831	7.7401923	7.7625840	7.7838778	6
55	7.6374006	7.6655813	7.6920444	7.7169873	7.7405751	7.7629476	7.7842240	5
56	7.6378856	7.6660359	7.6924721	7.7173911	7.7409576	7.7633109	7.7845699	4
57	7.6383700	7.6664899	7.6928993	7.7177945	7.7413397	7.7636738	7.7849155	3
58	7.6388539	7.6669435	7.6933262	7.7181976	7.7417215	7.7640366	7.7852609	2
59	7.6393373	7.6673966	7.6937526	7.7186003	7.7421030	7.7643989	7.7856060	1
60	7.6398201	7.6678492	7.6941786	7.7190026	7.7424841	7.7647610	7.7859508	0
″	45′	44′	43′	42′	41′	40′	39′	″

″	21′	22′	23′	24′	25′	26′	27′	″
0	7.7859427	7.8061458	7.8254507	7.8439338	7.8616623	7.8786953	7.8950854	60
1	7.7862872	7.8064747	7.8257653	7.8442353	7.8619517	7.8789736	7.8953634	59
2	7.7866315	7.8068033	7.8260797	7.8445366	7.8622410	7.8792517	7.8956412	58
3	7.7869755	7.8071317	7.8263938	7.8448377	7.8625300	7.8795297	7.8958889	57
4	7.7873192	7.8074599	7.8267077	7.8451385	7.8628189	7.8798075	7.8961564	56
5	7.7876627	7.8077878	7.8270214	7.8454392	7.8631076	7.8800850	7.8964237	55
6	7.7880058	7.8081154	7.8273348	7.8457396	7.8633960	7.8803625	7.8966909	54
7	7.7883488	7.8084428	7.8276481	7.8460398	7.8636843	7.8806397	7.8969579	53
8	7.7886914	7.8087699	7.8279611	7.8463399	7.8639723	7.8809167	7.8972248	52
9	7.7890337	7.8090968	7.8282738	7.8466397	7.8642602	7.8811936	7.8974914	51
10	7.7893758	7.8094235	7.8285864	7.8469393	7.8645479	7.8814703	7.8977580	50
11	7.7897177	7.8097499	7.8288987	7.8472387	7.8648354	7.8817469	7.8980243	49
12	7.7900592	7.8100761	7.8292108	7.8475379	7.8651228	7.8820232	7.8982905	48
13	7.7904005	7.8104020	7.8295227	7.8478369	7.8654099	7.8822994	7.8985565	47
14	7.7907415	7.8107277	7.8298343	7.8481357	7.8656968	7.8825754	7.8988224	46
15	7.7910823	7.8110531	7.8301458	7.8484343	7.8659836	7.8828512	7.8990881	45
16	7.7914228	7.8113783	7.8304570	7.8487326	7.8662702	7.8831269	7.8993536	44
17	7.7917630	7.8117032	7.8307680	7.8490308	7.8665565	7.8834023	7.8996190	43
18	7.7921029	7.8120279	7.8310787	7.8493288	7.8668427	7.8836776	7.8998842	42
19	7.7924426	7.8123524	7.8313893	7.8496265	7.8671287	7.8839528	7.9001493	41
20	7.7927820	7.8126766	7.8316996	7.8499241	7.8674145	7.8842277	7.9004141	40
21	7.7931212	7.8130006	7.8320097	7.8502215	7.8677001	7.8845025	7.9006789	39
22	7.7934601	7.8133243	7.8323196	7.8505186	7.8679856	7.8847771	7.9009434	38
23	7.7937987	7.8136478	7.8326292	7.8508156	7.8682708	7.8850515	7.9012078	37
24	7.7941371	7.8139711	7.8329386	7.8511123	7.8685559	7.8853258	7.9014721	36
25	7.7944752	7.8142941	7.8332478	7.8514088	7.8688408	7.8855999	7.9017362	35
26	7.7948130	7.8146168	7.8335568	7.8517052	7.8691254	7.8858738	7.9020001	34
27	7.7951506	7.8149394	7.8338656	7.8520013	7.8694099	7.8861475	7.9022639	33
28	7.7954879	7.8152617	7.8341741	7.8522973	7.8696942	7.8864211	7.9025276	32
29	7.7958250	7.8155837	7.8344825	7.8525930	7.8699784	7.8866945	7.9027909	31
30	7.7961617	7.8159055	7.8347906	7.8528885	7.8702623	7.8869677	7.9030542	30
31	7.7964983	7.8162271	7.8350985	7.8531839	7.8705461	7.8872407	7.9033173	29
32	7.7968345	7.8165484	7.8354062	7.8534790	7.8708296	7.8875136	7.9035803	28
33	7.7971705	7.8168695	7.8357135	7.8537739	7.8711130	7.8877863	7.9038431	27
34	7.7975063	7.8171904	7.8360209	7.8540687	7.8713962	7.8880589	7.9041057	26
35	7.7978418	7.8175110	7.8363279	7.8543632	7.8716792	7.8883312	7.9043682	25
36	7.7981770	7.8178314	7.8366347	7.8546575	7.8719621	7.8886034	7.9046305	24
37	7.7985120	7.8181516	7.8369413	7.8549517	7.8722447	7.8888754	7.9048927	23
38	7.7988467	7.8184715	7.8372477	7.8552456	7.8725272	7.8891473	7.9051547	22
39	7.7991811	7.8187912	7.8375538	7.8555393	7.8728095	7.8894190	7.9054166	21
40	7.7995153	7.8191106	7.8378598	7.8558329	7.8730916	7.8896905	7.9056783	20
41	7.7998493	7.8194298	7.8381655	7.8561262	7.8733735	7.8899618	7.9059398	19
42	7.8001830	7.8197488	7.8384710	7.8564193	7.8736552	7.8902330	7.9062012	18
43	7.8005164	7.8200675	7.8387763	7.8567123	7.8739367	7.8905040	7.9064624	17
44	7.8008496	7.8203861	7.8390814	7.8570050	7.8742181	7.8907749	7.9067235	16
45	7.8011825	7.8207043	7.8393863	7.8572976	7.8744993	7.8910456	7.9069844	15
46	7.8015151	7.8210224	7.8396909	7.8575899	7.8747803	7.8913160	7.9072451	14
47	7.8018475	7.8213402	7.8399954	7.8578821	7.8750611	7.8915864	7.9075057	13
48	7.8021797	7.8216578	7.8402996	7.8581740	7.8753417	7.8918565	7.9077662	12
49	7.8025116	7.8217751	7.8406036	7.8584658	7.8756222	7.8921265	7.9080265	11
50	7.8028432	7.8222922	7.8409074	7.8587574	7.8759025	7.8923963	7.9082866	10
51	7.8031746	7.8226091	7.8412110	7.8590487	7.8761826	7.8926660	7.9085466	9
52	7.8035058	7.8229258	7.8415144	7.8593399	7.8764625	7.8929355	7.9088064	8
53	7.8038367	7.8232422	7.8418176	7.8596309	7.8767422	7.8932048	7.9090660	7
54	7.8041673	7.8235584	7.8421205	7.8599211	7.8770218	7.8934740	7.9093256	6
55	7.8044977	7.8238743	7.8424233	7.8602123	7.8773011	7.8937430	7.9095849	5
56	7.8048278	7.8241921	7.8427258	7.8605027	7.8775803	7.8940118	7.9098441	4
57	7.8051577	7.8245056	7.8430281	7.8607929	7.8778594	7.8942804	7.9101031	3
58	7.8054873	7.8248209	7.8433302	7.8610829	7.8781382	7.8945489	7.9103620	2
59	7.8058167	7.8251359	7.8436321	7.8613727	7.8784168	7.8948173	7.9106208	1
60	7.8061458	7.8254507	7.8439338	7.8616623	7.8786953	7.8950854	7.9108793	0
″	38′	37′	36′	35′	34′	33′	32′	″

″	21′	22′	23′	24′	25′	26′	27′	″
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1	7.7862954	7.8064836	7.8257750	7.8442459	7.8619632	7.8789861	7.8953668	59
2	7.7866396	7.8068124	7.8260894	7.8445472	7.8622525	7.8792642	7.8956347	58
3	7.7869836	7.8071407	7.8264036	7.8448483	7.8625415	7.8795422	7.8959023	57
4	7.7873274	7.8074688	7.8267175	7.8451492	7.8628304	7.8798199	7.8961699	56
5	7.7876708	7.8077967	7.8270312	7.8454498	7.8631191	7.8800975	7.8964372	55
6	7.7880140	7.8081244	7.8273446	7.8457503	7.8634076	7.8803750	7.8967044	54
7	7.7883569	7.8084518	7.8276579	7.8460505	7.8636958	7.8806522	7.8969714	53
8	7.7886996	7.8087789	7.8279709	7.8463506	7.8639839	7.8809293	7.8972383	52
9	7.7890420	7.8091059	7.8282837	7.8466504	7.8642719	7.8812062	7.8975050	51
10	7.7893841	7.8094325	7.8285962	7.8469500	7.8645596	7.8814829	7.8977715	50
11	7.7897259	7.8097590	7.8289086	7.8472494	7.8648471	7.8817594	7.8980379	49
12	7.7900675	7.8100851	7.8292207	7.8475487	7.8651344	7.8820358	7.8983041	48
13	7.7904088	7.8104111	7.8295326	7.8478477	7.8654216	7.8823120	7.8985701	47
14	7.7907498	7.8107368	7.8298443	7.8481465	7.8657085	7.8825880	7.8988360	46
15	7.7910906	7.8110622	7.8301557	7.8484451	7.8659953	7.8828639	7.8991017	45
16	7.7914311	7.8113874	7.8304669	7.8487435	7.8662819	7.8831395	7.8993673	44
17	7.7917713	7.8117124	7.8307779	7.8490416	7.8665683	7.8834150	7.8996327	43
18	7.7921113	7.8120371	7.8310887	7.8493396	7.8668545	7.8836903	7.8998979	42
19	7.7924510	7.8123615	7.8313992	7.8496374	7.8671405	7.8839655	7.9001630	41
20	7.7927904	7.8126858	7.8317096	7.8499350	7.8674263	7.8842404	7.9004279	40
21	7.7931296	7.8130098	7.8320197	7.8502323	7.8677120	7.8845152	7.9006926	39
22	7.7934685	7.8133335	7.8323296	7.8505295	7.8679974	7.8847899	7.9009572	38
23	7.7938071	7.8136570	7.8326392	7.8508265	7.8682827	7.8850643	7.9012216	37
24	7.7941455	7.8139803	7.8329487	7.8511232	7.8685677	7.8853386	7.9014859	36
25	7.7944836	7.8143033	7.8332579	7.8514198	7.8688526	7.8856127	7.9017500	35
26	7.7948215	7.8146261	7.8335669	7.8517161	7.8691373	7.8858866	7.9020139	34
27	7.7951590	7.8149486	7.8338757	7.8520123	7.8694218	7.8861604	7.9022777	33
28	7.7954964	7.8152709	7.8341843	7.8523083	7.8697062	7.8864339	7.9025413	32
29	7.7958334	7.8155930	7.8344926	7.8526040	7.8699903	7.8867074	7.9028048	31
30	7.7961702	7.8159148	7.8348007	7.8528996	7.8702743	7.8869806	7.9030681	30
31	7.7965068	7.8162364	7.8351087	7.8531949	7.8705580	7.8872537	7.9033312	29
32	7.7968431	7.8165578	7.8354163	7.8534900	7.8708416	7.8875266	7.9035942	28
33	7.7971791	7.8168789	7.8357238	7.8537850	7.8711250	7.8877993	7.9038570	27
34	7.7975148	7.8171998	7.8360311	7.8540797	7.8714082	7.8880718	7.9041197	26
35	7.7978503	7.8175204	7.8363381	7.8543743	7.8716913	7.8883442	7.9043822	25
36	7.7981856	7.8178408	7.8366449	7.8546686	7.8719741	7.8885164	7.9046445	24
37	7.7985206	7.8181610	7.8369515	7.8549628	7.8722568	7.8888885	7.9049067	23
38	7.7988553	7.8184809	7.8372579	7.8552567	7.8725393	7.8891603	7.9051687	22
39	7.7991898	7.8188006	7.8375641	7.8555505	7.8728215	7.8894320	7.9054306	21
40	7.7995240	7.8191201	7.8378701	7.8558440	7.8731037	7.8897036	7.9056923	20
41	7.7998579	7.8194393	7.8381758	7.8561374	7.8733856	7.8899749	7.9059539	19
42	7.8001916	7.8197583	7.8384813	7.8564305	7.8736673	7.8902461	7.9062153	18
43	7.8005251	7.8200770	7.8387867	7.8567235	7.8739489	7.8905171	7.9064765	17
44	7.8008582	7.8203956	7.8390918	7.8570163	7.8742303	7.8907880	7.9067376	16
45	7.8011912	7.8207139	7.8393966	7.8573088	7.8745115	7.8910587	7.9069985	15
46	7.8015238	7.8210319	7.8397013	7.8576012	7.8747925	7.8913292	7.9072593	14
47	7.8018563	7.8213497	7.8400058	7.8578934	7.8750733	7.8915995	7.9075199	13
48	7.8021884	7.8216673	7.8403100	7.8581853	7.8753540	7.8918697	7.9077804	12
49	7.8025203	7.8219847	7.8406140	7.8584771	7.8756344	7.8921397	7.9080407	11
50	7.8028520	7.8223018	7.8409179	7.8587687	7.8759147	7.8924096	7.9083008	10
51	7.8031834	7.8226187	7.8412215	7.8590601	7.8761949	7.8926792	7.9085608	9
52	7.8035146	7.8229354	7.8415249	7.8593513	7.8764748	7.8929487	7.9088207	8
53	7.8038455	7.8232518	7.8418280	7.8596423	7.8767545	7.8932181	7.9090803	7
54	7.8041761	7.8235680	7.8421310	7.8599331	7.8770341	7.8934873	7.9093399	6
55	7.8045065	7.8238840	7.8424338	7.8602237	7.8773135	7.8937563	7.9095992	5
56	7.8048366	7.8241997	7.8427363	7.8605141	7.8775927	7.8940251	7.9098584	4
57	7.8051665	7.8245153	7.8430387	7.8608043	7.8778717	7.8942938	7.9101175	3
58	7.8054962	7.8248305	7.8433408	7.8610943	7.8781506	7.8945623	7.9103764	2
59	7.8058256	7.8251456	7.8436427	7.8613841	7.8784293	7.8948306	7.9106352	1
60	7.8061547	7.8254604	7.8439444	7.8616738	7.8787077	7.8950988	7.9108938	0
″	38′	37′	36′	35′	34′	33′	32′	″

″	28′	29′	30′	31′	32′	33′	34′	″
0	7.9108793	7.9261190	7.9408419	7.9550819	7.9688698	7.9822334	7.9951980	60
1	7.9111378	7.9263685	7.9410831	7.9553153	7.9690960	7.9824527	7.9954108	59
2	7.9113960	7.9266179	7.9413241	7.9555486	7.9693220	7.9826718	7.9956235	58
3	7.9116542	7.9268671	7.9415651	7.9557818	7.9695479	7.9828909	7.9958361	57
4	7.9119121	7.9271162	7.9418059	7.9560149	7.9697736	7.9831098	7.9960487	56
5	7.9121699	7.9273651	7.9420465	7.9562478	7.9699993	7.9833287	7.9962611	55
6	7.9124276	7.9276139	7.9422871	7.9564806	7.9702248	7.9835474	7.9964734	54
7	7.9126851	7.9278626	7.9425275	7.9567133	7.9704503	7.9837660	7.9966856	53
8	7.9129425	7.9281111	7.9427677	7.9569458	7.9706756	7.9839845	7.9968977	52
9	7.9131997	7.9283595	7.9430079	7.9571782	7.9709008	7.9842029	7.9971097	51
10	7.9134567	7.9286077	7.9432479	7.9574105	7.9711258	7.9844212	7.9973216	50
11	7.9137136	7.9288558	7.9434877	7.9576427	7.9713508	7.9846394	7.9975334	49
12	7.9139704	7.9291037	7.9437275	7.9578747	7.9715756	7.9848574	7.9977451	48
13	7.9142269	7.9293516	7.9439671	7.9581067	7.9718004	7.9850754	7.9979566	47
14	7.9144834	7.9295992	7.9442066	7.9583385	7.9720250	7.9852933	7.9981681	46
15	7.9147397	7.9298467	7.9444459	7.9585702	7.9722495	7.9855110	7.9983795	45
16	7.9149958	7.9300941	7.9446851	7.9588017	7.9724738	7.9857286	7.9985908	44
17	7.9152518	7.9303414	7.9449242	7.9590331	7.9726981	7.9859461	7.9988020	43
18	7.9155076	7.9305885	7.9451631	7.9592645	7.9729222	7.9861636	7.9990130	42
19	7.9157633	7.9308354	7.9454019	7.9594956	7.9731463	7.9863809	7.9992240	41
20	7.9160189	7.9310823	7.9456406	7.9597267	7.9733702	7.9865981	7.9994349	40
21	7.9162743	7.9313289	7.9458792	7.9599576	7.9735940	7.9868151	7.9996456	39
22	7.9165295	7.9315755	7.9461176	7.9601885	7.9738177	7.9870321	7.9998563	38
23	7.9167846	7.9318219	7.9463559	7.9604192	7.9740412	7.9872490	8.0000669	37
24	7.9170395	7.9320682	7.9465940	7.9606497	7.9742647	7.9874658	8.0002773	36
25	7.9172943	7.9323143	7.9468321	7.9608802	7.9744880	7.9876824	8.0004877	35
26	7.9175489	7.9325603	7.9470700	7.9611105	7.9747113	7.9878989	8.0006979	34
27	7.9178034	7.9328061	7.9473077	7.9613407	7.9749344	7.9881154	8.0009081	33
28	7.9180578	7.9330518	7.9475454	7.9615708	7.9751574	7.9883317	8.0011181	32
29	7.9183120	7.9332974	7.9477829	7.9618008	7.9753802	7.9885479	8.0013281	31
30	7.9185660	7.9335428	7.9480203	7.9620306	7.9756030	7.9887641	8.0015379	30
31	7.9188199	7.9337881	7.9482575	7.9622603	7.9758257	7.9889801	8.0017477	29
32	7.9190736	7.9340332	7.9484946	7.9624899	7.9760482	7.9891960	8.0019573	28
33	7.9193272	7.9342783	7.9487316	7.9627194	7.9762706	7.9894117	8.0021669	27
34	7.9195807	7.9345231	7.9489685	7.9629487	7.9764929	7.9896274	8.0023763	26
35	7.9198340	7.9347679	7.9492052	7.9631780	7.9767151	7.9898430	8.0025856	25
36	7.9200871	7.9350125	7.9494418	7.9634071	7.9769372	7.9900585	8.0027949	24
37	7.9203401	7.9352569	7.9496783	7.9636361	7.9771592	7.9902738	8.0030040	23
38	7.9205930	7.9355012	7.9499146	7.9638649	7.9773810	7.9904891	8.0032131	22
39	7.9208457	7.9357454	7.9501508	7.9640937	7.9776028	7.9907043	8.0034220	21
40	7.9210983	7.9359895	7.9503869	7.9643223	7.9778244	7.9909193	8.0036308	20
41	7.9213507	7.9362334	7.9506229	7.9645508	7.9780459	7.9911342	8.0038396	19
42	7.9216030	7.9364772	7.9508587	7.9647792	7.9782673	7.9913491	8.0040482	18
43	7.9218551	7.9367208	7.9510944	7.9650075	7.9784886	7.9915638	8.0042568	17
44	7.9221071	7.9369643	7.9513300	7.9652356	7.9787098	7.9917784	8.0044652	16
45	7.9223589	7.9372077	7.9515654	7.9654637	7.9789309	7.9919929	8.0046735	15
46	7.9226106	7.9374509	7.9518008	7.9656916	7.9791518	7.9922073	8.0048818	14
47	7.9228621	7.9376940	7.9520360	7.9659194	7.9793726	7.9924216	8.0050899	13
48	7.9231135	7.9379369	7.9522710	7.9661470	7.9795934	7.9926358	8.0052979	12
49	7.9233648	7.9381798	7.9525060	7.9663746	7.9798140	7.9928499	8.0055059	11
50	7.9236159	7.9384224	7.9527408	7.9666020	7.9800345	7.9930639	8.0057137	10
51	7.9238668	7.9386650	7.9529755	7.9668293	7.9802549	7.9932778	8.0059215	9
52	7.9241177	7.9389074	7.9532100	7.9670565	7.9804752	7.9934915	8.0061291	8
53	7.9243683	7.9391497	7.9534444	7.9672835	7.9806953	7.9937052	8.0063365	7
54	7.9246188	7.9393918	7.9536787	7.9675106	7.9809154	7.9939188	8.0065441	6
55	7.9248692	7.9396338	7.9539129	7.9677374	7.9811353	7.9941322	8.0067514	5
56	7.9251195	7.9398757	7.9541470	7.9679641	7.9813552	7.9943456	8.0069587	4
57	7.9253696	7.9401175	7.9543809	7.9681907	7.9815749	7.9945588	8.0071658	3
58	7.9256195	7.9403591	7.9546147	7.9684172	7.9817945	7.9947720	8.0073729	2
59	7.9258693	7.9406005	7.9548484	7.9686436	7.9820140	7.9949850	8.0075798	1
60	7.9261190	7.9408419	7.9550819	7.9688698	7.9822334	7.9951980	8.0077867	0
″	31′	30′	29′	28′	27′	26′	25′	″

″	28′	29′	30′	31′	32′	33′	34′	″
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1	7.9111522	7.9268840	7.9416096	7.9558330	7.9691148	7.9824727	7.9954320	59
2	7.9114105	7.9266333	7.9413477	7.9555663	7.9693408	7.9826919	7.9956448	58
3	7.9116686	7.9268826	7.9415817	7.9557995	7.9695667	7.9829110	7.9958574	57
4	7.9119265	7.9271317	7.9418225	7.9560326	7.9697925	7.9831297	7.9960700	56
5	7.9121844	7.9273807	7.9420632	7.9562655	7.9700182	7.9833488	7.9962824	55
6	7.9124421	7.9276295	7.9423037	7.9564984	7.9702438	7.9835675	7.9964947	54
7	7.9126996	7.9278782	7.9425441	7.9567310	7.9704692	7.9837862	7.9967070	53
8	7.9129570	7.9281267	7.9427844	7.9569636	7.9706945	7.9840047	7.9969191	52
9	7.9132142	7.9283751	7.9430246	7.9571961	7.9709198	7.9842231	7.9971311	51
10	7.9134713	7.9286233	7.9432646	7.9574284	7.9711449	7.9844414	7.9973430	50
11	7.9137282	7.9288714	7.9435045	7.9576606	7.9713698	7.9846595	7.9975548	49
12	7.9139850	7.9291194	7.9437442	7.9578926	7.9715947	7.9848777	7.9977666	48
13	7.9142416	7.9293672	7.9439839	7.9581246	7.9718194	7.9850957	7.9979782	47
14	7.9144980	7.9296149	7.9442233	7.9583564	7.9720441	7.9853135	7.9981897	46
15	7.9147543	7.9298625	7.9444627	7.9585881	7.9722686	7.9855313	7.9984011	45
16	7.9150105	7.9301099	7.9447019	7.9588197	7.9724930	7.9857490	7.9986124	44
17	7.9152665	7.9303571	7.9449410	7.9590511	7.9727173	7.9859665	7.9988236	43
18	7.9155224	7.9306043	7.9451800	7.9592825	7.9729414	7.9861839	7.9990346	42
19	7.9157781	7.9308512	7.9454188	7.9595137	7.9731655	7.9864013	7.9992456	41
20	7.9160336	7.9310981	7.9456575	7.9597447	7.9733894	7.9866185	7.9994565	40
21	7.9162890	7.9313448	7.9458961	7.9599757	7.9736132	7.9868356	7.9996673	39
22	7.9165443	7.9315913	7.9461345	7.9602065	7.9738369	7.9870526	7.9998780	38
23	7.9167994	7.9318378	7.9463728	7.9604373	7.9740605	7.9872695	8.0000886	37
24	7.9170543	7.9320840	7.9466110	7.9606678	7.9742840	7.9874862	8.0002991	36
25	7.9173091	7.9323302	7.9468491	7.9608983	7.9745073	7.9877029	8.0005094	35
26	7.9175638	7.9325762	7.9470870	7.9611287	7.9747306	7.9879195	8.0007197	34
27	7.9178183	7.9328220	7.9473248	7.9613589	7.9749537	7.9881360	8.0009299	33
28	7.9180727	7.9330678	7.9475624	7.9615890	7.9751767	7.9883523	8.0011400	32
29	7.9183269	7.9333133	7.9478000	7.9618190	7.9753996	7.9885685	8.0013499	31
30	7.9185809	7.9335588	7.9480374	7.9620488	7.9756224	7.9887847	8.0015598	30
31	7.9188348	7.9338041	7.9482746	7.9622785	7.9758451	7.9890007	8.0017696	29
32	7.9190886	7.9340493	7.9485118	7.9625082	7.9760676	7.9892165	8.0019792	28
33	7.9193422	7.9342943	7.9487488	7.9627377	7.9762901	7.9894324	8.0021888	27
34	7.9195957	7.9345392	7.9489856	7.9629670	7.9765124	7.9896481	8.0023983	26
35	7.9198490	7.9347839	7.9492224	7.9631963	7.9767346	7.9898637	8.0026076	25
36	7.9201022	7.9350286	7.9494590	7.9634254	7.9769567	7.9900792	8.0028169	24
37	7.9203552	7.9352730	7.9496955	7.9636544	7.9771787	7.9902946	8.0030260	23
38	7.9206081	7.9355174	7.9499319	7.9638833	7.9774005	7.9905099	8.0032351	22
39	7.9208608	7.9357616	7.9501681	7.9641121	7.9776224	7.9907251	8.0034441	21
40	7.9211134	7.9360057	7.9504042	7.9643408	7.9778440	7.9909401	8.0036529	20
41	7.9213658	7.9362496	7.9506402	7.9645693	7.9780655	7.9911551	8.0038617	19
42	7.9216181	7.9364934	7.9508760	7.9647977	7.9782870	7.9913699	8.0040703	18
43	7.9218702	7.9367370	7.9511118	7.9650260	7.9785083	7.9915847	8.0042789	17
44	7.9221222	7.9369805	7.9513474	7.9652541	7.9787295	7.9917993	8.0044874	16
45	7.9223741	7.9372239	7.9515828	7.9654822	7.9789506	7.9920138	8.0046957	15
46	7.9226258	7.9374672	7.9518182	7.9657101	7.9791715	7.9922283	8.0049040	14
47	7.9228774	7.9377103	7.9520534	7.9659379	7.9793924	7.9924426	8.0051121	13
48	7.9231288	7.9379533	7.9522885	7.9661656	7.9796131	7.9926568	8.0053202	12
49	7.9233800	7.9381961	7.9525234	7.9663932	7.9798338	7.9928709	8.0055282	11
50	7.9236312	7.9384388	7.9527582	7.9666206	7.9800543	7.9930849	8.0057360	10
51	7.9238821	7.9386814	7.9529929	7.9668480	7.9802747	7.9932988	8.0059438	9
52	7.9241330	7.9389238	7.9532275	7.9670752	7.9804950	7.9935125	8.0061514	8
53	7.9243836	7.9391661	7.9534620	7.9673023	7.9807152	7.9937263	8.0063590	7
54	7.9246342	7.9394083	7.9536963	7.9675293	7.9809353	7.9939399	8.0065665	6
55	7.9248846	7.9396503	7.9539305	7.9677561	7.9811552	7.9941534	8.0067738	5
56	7.9251348	7.9398922	7.9541646	7.9679829	7.9813751	7.9943667	8.0069811	4
57	7.9253850	7.9401339	7.9543985	7.9682095	7.9815948	7.9945800	8.0071883	3
58	7.9256349	7.9403756	7.9546323	7.9684360	7.9818145	7.9947932	8.0073953	2
59	7.9258847	7.9406170	7.9548660	7.9686624	7.9820340	7.9950062	8.0076023	1
60	7.9261344	7.9408584	7.9550996	7.9688886	7.9822534	7.9952192	8.0078092	0
″	31′	30′	29′	28′	27′	26′	25′	″

″	35′	36′	37′	38′	39′	40′	41′	″
0	8.0077867	8.0200207	8.0319195	8.0435009	8.0547814	8.0657763	8.0764997	60
1	8.0079934	8.0202217	8.0321150	8.0436913	8.0549670	8.0659572	8.0766762	59
2	8.0082001	8.0204226	8.0323105	8.0438816	8.0551524	8.0661381	8.0768526	58
3	8.0084066	8.0206234	8.0325059	8.0440719	8.0553378	8.0663188	8.0770290	57
4	8.0086131	8.0208242	8.0327012	8.0442621	8.0555231	8.0664995	8.0772052	56
5	8.0088194	8.0210248	8.0328965	8.0444522	8.0557084	8.0666801	8.0773815	55
6	8.0090257	8.0212253	8.0330916	8.0446422	8.0558935	8.0668606	8.0775576	54
7	8.0092318	8.0214258	8.0332866	8.0448321	8.0560786	8.0670411	8.0777337	53
8	8.0094379	8.0216261	8.0334816	8.0450220	8.0562636	8.0672215	8.0779097	52
9	8.0096439	8.0218264	8.0336765	8.0452117	8.0564485	8.0674018	8.0780856	51
10	8.0098497	8.0220266	8.0338713	8.0454014	8.0566333	8.0675820	8.0782614	50
11	8.0100555	8.0222267	8.0340660	8.0455910	8.0568181	8.0677622	8.0784372	49
12	8.0102612	8.0224267	8.0342606	8.0457805	8.0570028	8.0679423	8.0786129	48
13	8.0104668	8.0226266	8.0344551	8.0459700	8.0571874	8.0681223	8.0787886	47
14	8.0106722	8.0228264	8.0346495	8.0461593	8.0573719	8.0683022	8.0789641	46
15	8.0108776	8.0230261	8.0348439	8.0463486	8.0575563	8.0684821	8.0791396	45
16	8.0110829	8.0232257	8.0350382	8.0465378	8.0577407	8.0686619	8.0793151	44
17	8.0112881	8.0234252	8.0352323	8.0467269	8.0579250	8.0688416	8.0794904	43
18	8.0114932	8.0236247	8.0354264	8.0469159	8.0581092	8.0690212	8.0796657	42
19	8.0116982	8.0238240	8.0356204	8.0471048	8.0582933	8.0692008	8.0798409	41
20	8.0119031	8.0240233	8.0358143	8.0472937	8.0584774	8.0693803	8.0800161	40
21	8.0121079	8.0242224	8.0360082	8.0474825	8.0586614	8.0695597	8.0801912	39
22	8.0123126	8.0244215	8.0362019	8.0476712	8.0588453	8.0697390	8.0803662	38
23	8.0125172	8.0246205	8.0363956	8.0478598	8.0590291	8.0699183	8.0805411	37
24	8.0127217	8.0248194	8.0365892	8.0480483	8.0592128	8.0700975	8.0807160	36
25	8.0129261	8.0250182	8.0367826	8.0482368	8.0593965	8.0702766	8.0808908	35
26	8.0131304	8.0252169	8.0369760	8.0484251	8.0595801	8.0704557	8.0810655	34
27	8.0133347	8.0254155	8.0371693	8.0486134	8.0597636	8.0706346	8.0812401	33
28	8.0135388	8.0256140	8.0373626	8.0488016	8.0599470	8.0708135	8.0814147	32
29	8.0137428	8.0258125	8.0375557	8.0489897	8.0601304	8.0709923	8.0815892	31
30	8.0139468	8.0260108	8.0377488	8.0491778	8.0603137	8.0711711	8.0817637	30
31	8.0141506	8.0262091	8.0379417	8.0493657	8.0604969	8.0713498	8.0819380	29
32	8.0143543	8.0264072	8.0381346	8.0495536	8.0606800	8.0715284	8.0821123	28
33	8.0145580	8.0266053	8.0383274	8.0497414	8.0608630	8.0717069	8.0822866	27
34	8.0147615	8.0268033	8.0385201	8.0499291	8.0610460	8.0718854	8.0824607	26
35	8.0149650	8.0270012	8.0387128	8.0501167	8.0612289	8.0720637	8.0826348	25
36	8.0151684	8.0271990	8.0389053	8.0503043	8.0614117	8.0722421	8.0828088	24
37	8.0153716	8.0273967	8.0390978	8.0504918	8.0615944	8.0724203	8.0829828	23
38	8.0155748	8.0275943	8.0392901	8.0506792	8.0617771	8.0725985	8.0831567	22
39	8.0157779	8.0277919	8.0394824	8.0508665	8.0619597	8.0727765	8.0833305	21
40	8.0159808	8.0279893	8.0396746	8.0510537	8.0621422	8.0729546	8.0835042	20
41	8.0161837	8.0281867	8.0398667	8.0512408	8.0623246	9.0731325	8.0836779	19
42	8.0163865	8.0283839	8.0400588	8.0514279	8.0625070	8.0733104	8.0838515	18
43	8.0165892	8.0285811	8.0402507	8.0516149	8.0626892	8.0734882	8.0840251	17
44	8.0167918	8.0287782	8.0404426	8.0518018	8.0628714	8.0736659	8.0841985	16
45	8.0169943	8.0289752	8.0406343	8.0519886	8.0630536	8.0738436	8.0843719	15
46	8.0171967	8.0291721	8.0408260	8.0521754	8.0632356	8.0740211	8.0845452	14
47	8.0173991	8.0293689	8.0410176	8.0523620	8.0634176	8.0741986	8.0847185	13
48	8.0176013	8.0295656	8.0412092	8.0525486	8.0635995	8.0743761	8.0848917	12
49	8.0178034	8.0297623	8.0414006	8.0527351	8.0637813	8.0745534	8.0850648	11
50	8.0180055	8.0299588	8.0415920	8.0529216	8.0639630	8.0747307	8.0852379	10
51	8.0182074	8.0301553	8.0417832	8.0531079	8.0641447	8.0749080	8.0854109	9
52	8.0184093	8.0303517	8.0419744	8.0532942	8.0643263	8.0750851	8.0855838	8
53	8.0186110	8.0305479	8.0421655	8.0534803	8.0645078	8.0752622	8.0857566	7
54	8.0188127	8.0307441	8.0423565	8.0536665	8.0646893	8.0754392	8.0859295	6
55	8.0190142	8.0309403	8.0425475	8.0538525	8.0648706	8.0756161	8.0861021	5
56	8.0192157	8.0311363	8.0427383	8.0540384	8.0650519	8.0757930	8.0862747	4
57	8.0194171	8.0313322	8.0429291	8.0542243	8.0652331	8.0759698	8.0864473	3
58	8.0196184	8.0315280	8.0431198	8.0544101	8.0654143	8.0761465	8.0866198	2
59	8.0198196	8.0317238	8.0433104	8.0545958	8.0655953	8.0763231	8.0867922	1
60	8.0200207	8.0319195	8.0435009	8.0547814	8.0657763	8.0764997	8.0869646	0
″	24′	23′	22′	21′	20′	19′	18′	″

0 deg. Log. tang.

″	35′	36′	37′	38′	39′	40′	41′	″
0	8.0073092	8.0200445	8.0319446	8.0436274	8.0548094	8.0658057	8.0765306	60
1	8.0080159	8.0202455	8.0321402	8.0437179	8.0549949	8.0659866	8.0767071	59
2	8.0082226	8.0204465	8.0323357	8.0439082	8.0551804	8.0661675	8.0768835	58
3	8.0084292	8.0206473	8.0325311	8.0440985	8.0553658	8.0663483	8.0770599	57
4	8.0086357	8.0208481	8.0327265	8.0442887	8.0555512	8.0665290	8.0772362	56
5	8.0088420	8.0210487	8.0329217	8.0444788	8.0557364	8.0667096	8.0774125	55
6	8.0090483	8.0212493	8.0331169	8.0446689	8.0559216	8.0668902	8.0775886	54
7	8.0092545	8.0214498	8.0333120	8.0448588	8.0561067	8.0670707	8.0777647	53
8	8.0094606	8.0216501	8.0335069	8.0450487	8.0562917	8.0672511	8.0779407	52
9	8.0096665	8.0218504	8.0337018	8.0452385	8.0564767	8.0674314	8.0781167	51
10	8.0098725	8.0220506	8.0338967	8.0454282	8.0566615	8.0676117	8.0782926	50
11	8.0100783	8.0222507	8.0340914	8.0456178	8.0568463	8.0677919	8.0784684	49
12	8.0102840	8.0224507	8.0342860	8.0458074	8.0570310	8.0679720	8.0786441	48
13	8.0104896	8.0226507	8.0344806	8.0459968	8.0572156	8.0681520	8.0788198	47
14	8.0106951	8.0228505	8.0346750	8.0461862	8.0574002	8.0683320	8.0789954	46
15	8.0109005	8.0230504	8.0348694	8.0463755	8.0575846	8.0685118	8.0791709	45
16	8.0111058	8.0232499	8.0350637	8.0465647	8.0577690	8.0686917	8.0793464	44
17	8.0113110	8.0234494	8.0352579	8.0467538	8.0579534	8.0688714	8.0795218	43
18	8.0115161	8.0236489	8.0354520	8.0469429	8.0581376	8.0690511	8.0796971	42
19	8.0117211	8.0238483	8.0356460	8.0471318	8.0583217	8.0692306	8.0798723	41
20	8.0119260	8.0240475	8.0358400	8.0473207	8.0585058	8.0694102	8.0800475	40
21	8.0121308	8.0242467	8.0360338	8.0475095	8.0586898	8.0695896	8.0802226	39
22	8.0123356	8.0244458	8.0362276	8.0476982	8.0588737	8.0697690	8.0803976	38
23	8.0125402	8.0246448	8.0364213	8.0478869	8.0590576	8.0699483	8.0805726	37
24	8.0127447	8.0248437	8.0366149	8.0480754	8.0592414	8.0701276	8.0807475	36
25	8.0129492	8.0250426	8.0368084	8.0482639	8.0594250	8.0703066	8.0809223	35
26	8.0131535	8.0252413	8.0370018	8.0484523	8.0596087	8.0704857	8.0810970	34
27	8.0133578	8.0254399	8.0371951	8.0486405	8.0597922	8.0706647	8.0812717	33
28	8.0135619	8.0256385	8.0373884	8.0488288	8.0599756	8.0708436	8.0814463	32
29	8.0137660	8.0258369	8.0375815	8.0490169	8.0601590	8.0710225	8.0816208	31
30	8.0139699	8.0260353	8.0377746	8.0492050	8.0603423	8.0712012	8.0817953	30
31	8.0141738	8.0262336	8.0379676	8.0493930	8.0605255	8.0713799	8.0819697	29
32	8.0143775	8.0264318	8.0381605	8.0495809	8.0607087	8.0715586	8.0821440	28
33	8.0145812	8.0266299	8.0383533	8.0497687	8.0608918	8.0717371	8.0823183	27
34	8.0147848	8.0268279	8.0385461	8.0499564	8.0610748	8.0719156	8.0824925	26
35	8.0149883	8.0270258	8.0387387	8.0501441	8.0612577	8.0720940	8.0826666	25
36	8.0151916	8.0272236	8.0389313	8.0503317	8.0614406	8.0722723	8.0828406	24
37	8.0153949	8.0274213	8.0391238	8.0505192	8.0616233	8.0724506	8.0830146	23
38	8.0155981	8.0276190	8.0393162	8.0507066	8.0618060	8.0726288	8.0831885	22
39	8.0158012	8.0278166	8.0395085	8.0508939	8.0619885	8.0728069	8.0833624	21
40	8.0160042	8.0280140	8.0397007	8.0510812	8.0621711	8.0729850	8.0835361	20
41	8.0162071	8.0282114	8.0398928	8.0512683	8.0623536	8.0731629	8.0837098	19
42	8.0164099	8.0284087	8.0400849	8.0514554	8.0625359	8.0733408	8.0838835	18
43	8.0166127	8.0286059	8.0402768	8.0516424	8.0627182	8.0735186	8.0840570	17
44	8.0168153	8.0288030	8.0404687	8.0518294	8.0629005	8.0736964	8.0842305	16
45	8.0170178	8.0290000	8.0406605	8.0520162	8.0630826	8.0738741	8.0844039	15
46	8.0172203	8.0291969	8.0408522	8.0522030	8.0632647	8.0740517	8.0845773	14
47	8.0174226	8.0293938	8.0410439	8.0523897	8.0634467	8.0742292	8.0847506	13
48	8.0176248	8.0295905	8.0412354	8.0525763	8.0636286	8.0744067	8.0849238	12
49	8.0178270	8.0297872	8.0414269	8.0527628	8.0638104	8.0745841	8.0850969	11
50	8.0180291	8.0299838	8.0416183	8.0529493	8.0639922	8.0747614	8.0852700	10
51	8.0182310	8.0301802	8.0418096	8.0531356	8.0641739	8.0749386	8.0854430	9
52	8.0184329	8.0303766	8.0420008	8.0533219	8.0643555	8.0751158	8.0856160	8
53	8.0186347	8.0305729	8.0421919	8.0535081	8.0645371	8.0752929	8.0857888	7
54	8.0188364	8.0307692	8.0423829	8.0536943	8.0647185	8.0754699	8.0859616	6
55	8.0190379	8.0309653	8.0425739	8.0538803	8.0648999	8.0756469	8.0861344	5
56	8.0192394	8.0311613	8.0427648	8.0540663	8.0650812	8.0758238	8.0863070	4
57	8.0194408	8.0313573	8.0429555	8.0542522	8.0652625	8.0760006	8.0864796	3
58	8.0196422	8.0315531	8.0431462	8.0544380	8.0654436	8.0761773	8.0866522	2
59	8.0198434	8.0317489	8.0433369	8.0546237	8.0656247	8.0763540	8.0868246	1
60	8.0200445	8.0319446	8.0435274	8.0548094	8.0658057	8.0765306	8.0869970	0
″	24′	23′	22′	21′	20′	19′	18′	″

Log. co-tang. 89 deg.

″	42′	43′	44′	45′	46′	47′	″
0	8.0869646	8.0971832	8.1071669	8.1169262	8.1264710	8.1358104	60
1	8.0871369	8.0973513	8.1073314	8.1170870	8.1266283	8.1359644	59
2	8.0873091	8.0975198	8.1074958	8.1172478	8.1267856	8.1361183	58
3	8.0874813	8.0976879	8.1076601	8.1174085	8.1269428	8.1362722	57
4	8.0876534	8.0978560	8.1078244	8.1175691	8.1270999	8.1364260	56
5	8.0878254	8.0980240	8.1079886	8.1177297	8.1272570	8.1365797	55
6	8.0879974	8.0981920	8.1081528	8.1178902	8.1274140	8.1367334	54
7	8.0881692	8.0983599	8.1083169	8.1180507	8.1275710	8.1368871	53
8	8.0883411	8.0985277	8.1084809	8.1182111	8.1277279	8.1370407	52
9	8.0885128	8.0986956	8.1086449	8.1183714	8.1278848	8.1371942	51
10	8.0886845	8.0988632	8.1088088	8.1185317	8.1280416	8.1373477	50
11	8.0888561	8.0990309	8.1089726	8.1186919	8.1281983	8.1375011	49
12	8.0890277	8.0991984	8.1091364	8.1188520	8.1283550	8.1376545	48
13	8.0891991	8.0993659	8.1093001	8.1190121	8.1285117	8.1378078	47
14	8.0893706	8.0995334	8.1094638	8.1191722	8.1286682	8.1379610	46
15	8.0895419	8.0997008	8.1096274	8.1193322	8.1288248	8.1381143	45
16	8.0897132	8.0998681	8.1097909	8.1194921	8.1289812	8.1382674	44
17	8.0898844	8.1000353	8.1099544	8.1196519	8.1291376	8.1384205	43
18	8.0900555	8.1002025	8.1101178	8.1198118	8.1292940	8.1385736	42
19	8.0902266	8.1003697	8.1102812	8.1199715	8.1294503	8.1387265	41
20	8.0903976	8.1005367	8.1104445	8.1201312	8.1296065	8.1388795	40
21	8.0905685	8.1007037	8.1106077	8.1202908	8.1297627	8.1390324	39
22	8.0907394	8.1008706	8.1107709	8.1204504	8.1299188	8.1391852	38
23	8.0909102	8.1010375	8.1109340	8.1206099	8.1300749	8.1393380	37
24	8.0910810	8.1012043	8.1110970	8.1207693	8.1302309	8.1394907	36
25	8.0912516	8.1013710	8.1112600	8.1209287	8.1303869	8.1396434	35
26	8.0914222	8.1015377	8.1114229	8.1210881	8.1305428	8.1397960	34
27	8.0915928	8.1017043	8.1115858	8.1212474	8.1306986	8.1399485	33
28	8.0917632	8.1018709	8.1117486	8.1214066	8.1308544	8.1401011	32
29	8.0919336	8.1020374	8.1119113	8.1215657	8.1310101	8.1402535	31
30	8.0921040	8.1022038	8.1120740	8.1217248	8.1311658	8.1404059	30
31	8.0922743	8.1023701	8.1122366	8.1218839	8.1313215	8.1405583	29
32	8.0924445	8.1025364	8.1123992	8.1220429	8.1314770	8.1407105	28
33	8.0926146	8.1027027	8.1125617	8.1222018	8.1316325	8.1408628	27
34	8.0927847	8.1028688	8.1127241	8.1223607	8.1317880	8.1410150	26
35	8.0929547	8.1030349	8.1128865	8.1225195	8.1319434	8.1411671	25
36	8.0931246	8.1032010	8.1130488	8.1226782	8.1320987	8.1413192	24
37	8.0932945	8.1033669	8.1132110	8.1228369	8.1322540	8.1414712	23
38	8.0934643	8.1035328	8.1133732	8.1229956	8.1324093	8.1416232	22
39	8.0936340	8.1036987	8.1135354	8.1231541	8.1325644	8.1417751	21
40	8.0938037	8.1038645	8.1136974	8.1233127	8.1327196	8.1419270	20
41	8.0939733	8.1040302	8.1138595	8.1234711	8.1328746	8.1420788	19
42	8.0941428	8.1041959	8.1140214	8.1236295	8.1330296	8.1422306	18
43	8.0943123	8.1043615	8.1141833	8.1237879	8.1331846	8.1423823	17
44	8.0944817	8.1045270	8.1143451	8.1239462	8.1333395	8.1425339	16
45	8.0946510	8.1046925	8.1145069	8.1241044	8.1334943	8.1426855	15
46	8.0948203	8.1048579	8.1146686	8.1242626	8.1336491	8.1428371	14
47	8.0949895	8.1050232	8.1148302	8.1244207	8.1338039	8.1429886	13
48	8.0951587	8.1051885	8.1149918	8.1245787	8.1339586	8.1431400	12
49	8.0953277	8.1053537	8.1151534	8.1247367	8.1341132	8.1432914	11
50	8.0954968	8.1055188	8.1153148	8.1248947	8.1342678	8.1434427	10
51	8.0956657	8.1056839	8.1154762	8.1250526	8.1344223	8.1435940	9
52	8.0958346	8.1058490	8.1156376	8.1252104	8.1345767	8.1437453	8
53	8.0960034	8.1060139	8.1157989	8.1253682	8.1347311	8.1438964	7
54	8.0961721	8.1061788	8.1159601	8.1255259	8.1348855	8.1440476	6
55	8.0963408	8.1063437	8.1161213	8.1256835	8.1350398	8.1441987	5
56	8.0965094	8.1065085	8.1162824	8.1258412	8.1351940	8.1443497	4
57	8.0966780	8.1066732	8.1164434	8.1259987	8.1353482	8.1445006	3
58	8.0968465	8.1068378	8.1166044	8.1261562	8.1355023	8.1446516	2
59	8.0970149	8.1070024	8.1167654	8.1263136	8.1356564	8.1448024	1
60	8.0971832	8.1071669	8.1169262	8.1264710	8.1358104	8.1449532	0
″	17′	16′	15′	14′	13′	12′	″

″	42′	43′	44′	45′	46′	47′	″
0	8.0869970	8.0972172	8.1072025	8.1169634	8.1265099	8.1358510	60
1	8.0871693	8.0973855	8.1073670	8.1171243	8.1266672	8.1360050	59
2	8.0873416	8.0975538	8.1075314	8.1172851	8.1268245	8.1361590	58
3	8.0875138	8.0977220	8.1076958	8.1174458	8.1269817	8.1363129	57
4	8.0876859	8.0978901	8.1078601	8.1176064	8.1271389	8.1364667	56
5	8.0878579	8.0980582	8.1080243	8.1177670	8.1272960	8.1366205	55
6	8.0880299	8.0982261	8.1081885	8.1179276	8.1274531	8.1367742	54
7	8.0882018	8.0983941	8.1083526	8.1180881	8.1276101	8.1369279	53
8	8.0883737	8.0985619	8.1085167	8.1182485	8.1277670	8.1370815	52
9	8.0885455	8.0987297	8.1086807	8.1184088	8.1279239	8.1372350	51
10	8.0887172	8.0988975	8.1088446	8.1185691	8.1280807	8.1373886	50
11	8.0888888	8.0990651	8.1090085	8.1187294	8.1282375	8.1375420	49
12	8.0890604	8.0992327	8.1091723	8.1188896	8.1283942	8.1376954	48
13	8.0892319	8.0994003	8.1093361	8.1190497	8.1285509	8.1378488	47
14	8.0894033	8.0995677	8.1094998	8.1192098	8.1287075	8.1380020	46
15	8.0895747	8.0997351	8.1096634	8.1193698	8.1288641	8.1381553	45
16	8.0897460	8.0999025	8.1098269	8.1195297	8.1290206	8.1383085	44
17	8.0899172	8.1000698	8.1099904	8.1196896	8.1291770	8.1384616	43
18	8.0900884	8.1002370	8.1101539	8.1198495	8.1293334	8.1386147	42
19	8.0902595	8.1004041	8.1103173	8.1200092	8.1294897	8.1387677	41
20	8.0904305	8.1005712	8.1104806	8.1201689	8.1296460	8.1389207	40
21	8.0906015	8.1007382	8.1106438	8.1203286	8.1298022	8.1390736	39
22	8.0907724	8.1009052	8.1108070	8.1204882	8.1299583	8.1392264	38
23	8.0909432	8.1010721	8.1109702	8.1206477	8.1301144	8.1393792	37
24	8.0911140	8.1012389	8.1111332	8.1208072	8.1302705	8.1395320	36
25	8.0912847	8.1014057	8.1112962	8.1209666	8.1304265	8.1396847	35
26	8.0914553	8.1015724	8.1114592	8.1211260	8.1305824	8.1398373	34
27	8.0916259	8.1017390	8.1116221	8.1212853	8.1307383	8.1399899	33
28	8.0917964	8.1019056	8.1117849	8.1214446	8.1308941	8.1401425	32
29	8.0919668	8.1020721	8.1119477	8.1216037	8.1310498	8.1402949	31
30	8.0921372	8.1022386	8.1121104	8.1217629	8.1312056	8.1404474	30
31	8.0923075	8.1024049	8.1122730	8.1219219	8.1313612	8.1405997	29
32	8.0924777	8.1025713	8.1124356	8.1220810	8.1315168	8.1407521	28
33	8.0926479	8.1027375	8.1125981	8.1222399	8.1316723	8.1409043	27
34	8.0928180	8.1029037	8.1127606	8.1223988	8.1318278	8.1410565	26
35	8.0929880	8.1030698	8.1129230	8.1225577	8.1319833	8.1412087	25
36	8.0931579	8.1032359	8.1130853	8.1227164	8.1321386	8.1413608	24
37	8.0933278	8.1034019	8.1132476	8.1228752	8.1322940	8.1415129	23
38	8.0934977	8.1035678	8.1134098	8.1230338	8.1324492	8.1416649	22
39	8.0936674	8.1037337	8.1135720	8.1231924	8.1326044	8.1418168	21
40	8.0938371	8.1038995	8.1137341	8.1233510	8.1327596	8.1419687	20
41	8.0940068	8.1040653	8.1138961	8.1235095	8.1329147	8.1421206	19
42	8.0941763	8.1042309	8.1140581	8.1236679	8.1330697	8.1422724	18
43	8.0943458	8.1043966	8.1142200	8.1238263	8.1332247	8.1424241	17
44	8.0945153	8.1045621	8.1143819	8.1239846	8.1333796	8.1425758	16
45	8.0946846	8.1047276	8.1145437	8.1241429	8.1335345	8.1427274	15
46	8.0948539	8.1048931	8.1147054	8.1243011	8.1336893	8.1428790	14
47	8.0950232	8.1050584	8.1148671	8.1244592	8.1338441	8.1430305	13
48	8.0951923	8.1052237	8.1150287	8.1246173	8.1339988	8.1431820	12
49	8.0953614	8.1053890	8.1151903	8.1247753	8.1341535	8.1433334	11
50	8.0955305	8.1055542	8.1153518	8.1249333	8.1343081	8.1434848	10
51	8.0956994	8.1057193	8.1155132	8.1250912	8.1344626	8.1436361	9
52	8.0958683	8.1058843	8.1156746	8.1252491	8.1346171	8.1437874	8
53	8.0960372	8.1060493	8.1158359	8.1254069	8.1347715	8.1439386	7
54	8.0962060	8.1062142	8.1159972	8.1255646	8.1349259	8.1440897	6
55	8.0963747	8.1063791	8.1161584	8.1257223	8.1350802	8.1442408	5
56	8.0965433	8.1065439	8.1163195	8.1258799	8.1352345	8.1443919	4
57	8.0967119	8.1067087	8.1164806	8.1260375	8.1353887	8.1445429	3
58	8.0968804	8.1068733	8.1166416	8.1261950	8.1355429	8.1446938	2
59	8.0970488	8.1070380	8.1168025	8.1263525	8.1356970	8.1448447	1
60	8.0972172	8.1072025	8.1169634	8.1265099	8.1358510	8.1449956	0
″	17′	16′	15′	14′	13′	12′	″

″	48′	49′	50′	51′	52′	53′	″
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1	8.1451040	8.1540552	8.1628255	8.1714223	8.1798521	8.1881213	59
2	8.1452547	8.1542028	8.1629702	8.1715641	8.1799912	8.1882578	58
3	8.1454054	8.1543504	8.1631149	8.1717059	8.1801303	8.1883943	57
4	8.1455560	8.1544979	8.1632594	8.1718477	8.1802693	8.1885307	56
5	8.1457065	8.1546454	8.1634040	8.1719894	8.1804083	8.1886670	55
6	8.1458570	8.1547928	8.1635485	8.1721310	8.1805472	8.1888034	54
7	8.1460075	8.1549402	8.1636929	8.1722726	8.1806861	8.1889397	53
8	8.1461579	8.1550876	8.1638373	8.1724142	8.1808250	8.1890759	52
9	8.1463082	8.1552348	8.1639817	8.1725557	8.1809638	8.1892121	51
10	8.1464585	8.1553821	8.1641259	8.1726972	8.1811025	8.1893482	50
11	8.1466087	8.1555293	8.1642702	8.1728386	8.1812413	8.1894843	49
12	8.1467589	8.1556764	8.1644144	8.1729800	8.1813799	8.1896204	48
13	8.1469091	8.1558235	8.1645586	8.1731214	8.1815186	8.1897564	47
14	8.1470591	8.1559705	8.1647027	8.1732627	8.1816571	8.1898924	46
15	8.1472092	8.1561175	8.1648467	8.1734039	8.1817957	8.1900284	45
16	8.1473592	8.1562644	8.1649907	8.1735451	8.1819342	8.1901643	44
17	8.1475091	8.1564113	8.1651347	8.1736863	8.1820726	8.1903001	43
18	8.1476590	8.1565582	8.1652786	8.1738274	8.1822111	8.1904359	42
19	8.1478088	8.1567049	8.1654225	8.1739684	8.1823494	8.1905717	41
20	8.1479586	8.1568517	8.1655663	8.1741094	8.1824877	8.1907074	40
21	8.1481083	8.1569984	8.1657101	8.1742504	8.1826260	8.1908431	39
22	8.1482579	8.1571450	8.1658538	8.1743913	8.1827643	8.1909788	38
23	8.1484076	8.1572916	8.1659975	8.1745322	8.1829024	8.1911144	37
24	8.1485571	8.1574381	8.1661411	8.1746731	8.1830406	8.1912499	36
25	8.1487066	8.1575846	8.1662847	8.1748138	8.1831787	8.1913854	35
26	8.1488561	8.1577310	8.1664282	8.1749546	8.1833167	8.1915209	34
27	8.1490055	8.1578774	8.1665717	8.1750953	8.1834548	8.1916563	33
28	8.1491549	8.1580238	8.1667151	8.1752359	8.1835927	8.1917917	32
29	8.1493042	8.1581701	8.1668585	8.1753765	8.1837307	8.1919271	31
30	8.1494534	8.1583163	8.1670019	8.1755171	8.1838685	8.1920624	30
31	8.1496027	8.1584625	8.1671452	8.1756576	8.1840064	8.1921976	29
32	8.1497518	8.1586086	8.1672884	8.1757981	8.1841442	8.1923329	28
33	8.1499009	8.1587547	8.1674316	8.1759385	8.1842819	8.1924680	27
34	8.1500500	8.1589008	8.1675748	8.1760789	8.1844196	8.1926032	26
35	8.1501990	8.1590468	8.1677179	8.1762192	8.1845573	8.1927383	25
36	8.1503479	8.1591927	8.1678610	8.1763595	8.1846949	8.1928733	24
37	8.1504968	8.1593386	8.1680040	8.1764998	8.1848325	8.1930083	23
38	8.1506457	8.1594845	8.1681469	8.1766400	8.1849700	8.1931433	22
39	8.1507945	8.1596303	8.1682899	8.1767801	8.1851075	8.1932782	21
40	8.1509432	8.1597760	8.1684327	8.1769202	8.1852450	8.1934131	20
41	8.1510919	8.1599217	8.1685756	8.1770603	8.1853824	8.1935479	19
42	8.1512406	8.1600674	8.1687183	8.1772003	8.1855197	8.1936827	18
43	8.1513891	8.1602130	8.1688611	8.1773403	8.1856570	8.1938175	17
44	8.1515377	8.1603585	8.1690038	8.1774802	8.1857943	8.1939522	16
45	8.1516862	8.1605040	8.1691464	8.1776201	8.1859315	8.1940869	15
46	8.1518346	8.1606495	8.1692890	8.1777599	8.1860687	8.1942215	14
47	8.1519830	8.1607949	8.1694315	8.1778997	8.1862059	8.1943561	13
48	8.1521314	8.1609403	8.1695740	8.1780394	8.1863430	8.1944907	12
49	8.1522796	8.1610856	8.1697165	8.1781791	8.1864800	8.1946252	11
50	8.1524279	8.1612308	8.1698589	8.1783188	8.1866170	8.1947596	10
51	8.1525761	8.1613761	8.1700012	8.1784584	8.1867540	8.1948941	9
52	8.1527242	8.1615212	8.1701435	8.1785980	8.1868909	8.1950284	8
53	8.1528723	8.1616663	8.1702858	8.1787375	8.1870278	8.1951628	7
54	8.1530203	8.1618114	8.1704280	8.1788770	8.1871646	8.1952971	6
55	8.1531683	8.1619564	8.1705702	8.1790164	8.1873014	8.1954313	5
56	8.1533163	8.1621014	8.1707123	8.1791558	8.1874382	8.1955655	4
57	8.1534641	8.1622463	8.1708544	8.1792951	8.1875749	8.1956997	3
58	8.1536120	8.1623912	8.1709964	8.1794344	8.1877116	8.1958339	2
59	8.1537598	8.1625360	8.1711384	8.1795737	8.1878482	8.1959680	1
60	8.1539075	8.1626808	8.1712804	8.1797129	8.1879848	8.1961020	0
″	11′	10′	9	8′	7′	6′	″

″	48′	49′	50′	51′	52′	53′	″
0	8.1449356	8.1539516	8.1627267	8.1713282	8.1797626	8.1880364	60
1	8.1451464	8.1540993	8.1628715	8.1714701	8.1799018	8.1881730	59
2	8.1452971	8.1542470	8.1630162	8.1716120	8.1800409	8.1883096	58
3	8.1454478	8.1543946	8.1631609	8.1717538	8.1801800	8.1884460	57
4	8.1455984	8.1545422	8.1633056	8.1718956	8.1803191	8.1885824	56
5	8.1457490	8.1546897	8.1634501	8.1720373	8.1804581	8.1887188	55
6	8.1458995	8.1548371	8.1635946	8.1721790	8.1805971	8.1888552	54
7	8.1460500	8.1549846	8.1637391	8.1723207	8.1807360	8.1889915	53
8	8.1462004	8.1551319	8.1638835	8.1724623	8.1808749	8.1891278	52
9	8.1463508	8.1552792	8.1640279	8.1726038	8.1810137	8.1892640	51
10	8.1465011	8.1554265	8.1641722	8.1727453	8.1811525	8.1894002	50
11	8.1466514	8.1555737	8.1643165	8.1728868	8.1812913	8.1895363	49
12	8.1468016	8.1557209	8.1644607	8.1730282	8.1814300	8.1896724	48
13	8.1469518	8.1558680	8.1646049	8.1731696	8.1815687	8.1898085	47
14	8.1471019	8.1560151	8.1647490	8.1733109	8.1817073	8.1899445	46
15	8.1472520	8.1561621	8.1648931	8.1734522	8.1818459	8.1900805	45
16	8.1474020	8.1563090	8.1650372	8.1735934	8.1819844	8.1902164	44
17	8.1475519	8.1564559	8.1651812	8.1737346	8.1821229	8.1903523	43
18	8.1477018	8.1566028	8.1653251	8.1738757	8.1822613	8.1904881	42
19	8.1478517	8.1567496	8.1654690	8.1740168	8.1823997	8.1906239	41
20	8.1480015	8.1568964	8.1656128	8.1741579	8.1825381	8.1907597	40
21	8.1481512	8.1570431	8.1657566	8.1742989	8.1826764	8.1908954	39
22	8.1483009	8.1571898	8.1659004	8.1744398	8.1828146	8.1910311	38
23	8.1484506	8.1573364	8.1660441	8.1745807	8.1829529	8.1911667	37
24	8.1486002	8.1574830	8.1661878	8.1747216	8.1830910	8.1913023	36
25	8.1487497	8.1576295	8.1663314	8.1748624	8.1832292	8.1914379	35
26	8.1488992	8.1577759	8.1664749	8.1750032	8.1833673	8.1915734	34
27	8.1490487	8.1579224	8.1666185	8.1751439	8.1835053	8.1917088	33
28	8.1491980	8.1580687	8.1667619	8.1752846	8.1836433	8.1918442	32
29	8.1493474	8.1582151	8.1669054	8.1754252	8.1837813	8.1919796	31
30	8.1494967	8.1583613	8.1670487	8.1755658	8.1839192	8.1921150	30
31	8.1496459	8.1585076	8.1671921	8.1757064	8.1840571	8.1922503	29
32	8.1497951	8.1586537	8.1673353	8.1758469	8.1841949	8.1923855	28
33	8.1499442	8.1587999	8.1674786	8.1759873	8.1843327	8.1925207	27
34	8.1500933	8.1589459	8.1676218	8.1761278	8.1844704	8.1926559	26
35	8.1502423	8.1590920	8.1677649	8.1762681	8.1846081	8.1927910	25
36	8.1503913	8.1592379	8.1679080	8.1764084	8.1847458	8.1929261	24
37	8.1505402	8.1593839	8.1680510	8.1765487	8.1848834	8.1930611	23
38	8.1506891	8.1595297	8.1681940	8.1766889	8.1850209	8.1931961	22
39	8.1508380	8.1596756	8.1683370	8.1768291	8.1851585	8.1933311	21
40	8.1509867	8.1598213	8.1684799	8.1769693	8.1852959	8.1934660	20
41	8.1511355	8.1599671	8.1686228	8.1771094	8.1854334	8.1936009	19
42	8.1512841	8.1601128	8.1687656	8.1772494	8.1855708	8.1937357	18
43	8.1514328	8.1602584	8.1689083	8.1773894	8.1857081	8.1938705	17
44	8.1515813	8.1604040	8.1690510	8.1775294	8.1858454	8.1940053	16
45	8.1517299	8.1605495	8.1691937	8.1776693	8.1859827	8.1941400	15
46	8.1518783	8.1606950	8.1693363	8.1778091	8.1861199	8.1942746	14
47	8.1520267	8.1608404	8.1694789	8.1779490	8.1862571	8.1944093	13
48	8.1521751	8.1609858	8.1696214	8.1780887	8.1863942	8.1945439	12
49	8.1523234	8.1611312	8.1697639	8.1782285	8.1865313	8.1946784	11
50	8.1524717	8.1612765	8.1699064	8.1783682	8.1866683	8.1948129	10
51	8.1526199	8.1614217	8.1700487	8.1785078	8.1868053	8.1949473	9
52	8.1527681	8.1615669	8.1701911	8.1786474	8.1869423	8.1950818	8
53	8.1529162	8.1617121	8.1703334	8.1787870	8.1870792	8.1952161	7
54	8.1530643	8.1618572	8.1704756	8.1789265	8.1872161	8.1953505	6
55	8.1532123	8.1620022	8.1706178	8.1790659	8.1873529	8.1954848	5
56	8.1533603	8.1621472	8.1707600	8.1792054	8.1874897	8.1956190	4
57	8.1535082	8.1622922	8.1709021	8.1793447	8.1876264	8.1957532	3
58	8.1536560	8.1624371	8.1710442	8.1794841	8.1877631	8.1958874	2
59	8.1538038	8.1625819	8.1711862	8.1796233	8.1878998	8.1960215	1
60	8.1539516	8.1627267	8.1713282	8.1797626	8.1880364	8.1961556	0
″	11′	10′	9	8′	7′	6′	″

″	54′	55′	56′	57′	58′	59′	″
0	8.1961020	8.2040703	8.2118949	8.2195811	8.2271335	8.2345568	60
1	8.1962360	8.2042019	8.2120242	8.2197080	8.2272583	8.2346795	59
2	8.1963700	8.2043334	8.2121533	8.2198349	8.2273830	8.2348021	58
3	8.1965039	8.2044649	8.2122826	8.2199618	8.2275077	8.2349247	57
4	8.1966378	8.2045963	8.2124116	8.2200887	8.2276324	8.2350472	56
5	8.1967717	8.2047277	8.2125407	8.2202155	8.2277570	8.2352697	55
6	8.1969055	8.2048591	8.2126697	8.2203423	8.2278816	8.2352922	54
7	8.1970392	8.2049905	8.2127987	8.2204690	8.2280061	8.2354147	53
8	8.1971729	8.2051218	8.2129277	8.2205957	8.2281306	8.2355371	52
9	8.1973066	8.2052530	8.2130566	8.2207223	8.2282551	8.2356594	51
10	8.1974403	8.2053842	8.2131854	8.2208490	8.2283796	8.2357818	50
11	8.1975739	8.2055154	8.2133143	8.2209756	8.2285040	8.2359041	49
12	8.1977074	8.2056465	8.2134431	8.2211021	8.2286284	8.2360264	48
13	8.1978409	8.2057776	8.2135719	8.2212286	8.2287527	8.2361486	47
14	8.1979744	8.2059087	8.2137006	8.2213551	8.2288770	8.2362708	46
15	8.1981078	8.2060397	8.2138293	8.2214815	8.2290013	8.2363930	45
16	8.1982412	8.2061707	8.2139579	8.2216079	8.2291255	8.2365151	44
17	8.1983746	8.2063016	8.2140865	8.2217343	8.2292497	8.2366372	43
18	8.1985079	8.2064325	8.2142151	8.2218606	8.2293739	8.2367593	42
19	8.1986412	8.2065634	8.2143436	8.2219869	8.2294980	8.2368813	41
20	8.1987744	8.2066942	8.2144721	8.2221132	8.2296221	8.2370033	40
21	8.1989076	8.2068250	8.2146006	8.2222394	8.2297461	8.2371253	39
22	8.1990407	8.2069557	8.2147290	8.2223656	8.2298701	8.2372472	38
23	8.1991738	8.2070864	8.2148574	8.2224917	8.2299941	8.2373691	37
24	8.1993069	8.2072171	8.2149857	8.2226178	8.2301181	8.2374910	36
25	8.1994399	8.2073477	8.2151140	8.2227439	8.2302420	8.2376128	35
26	8.1995729	8.2074783	8.2152423	8.2228699	8.2303659	8.2377346	34
27	8.1997058	8.2076088	8.2153705	8.2229959	8.2304897	8.2378563	33
28	8.1998387	8.2077393	8.2154987	8.2231219	8.2306135	8.2379781	32
29	8.1999716	8.2078698	8.2156269	8.2232478	8.2307373	8.2380997	31
30	8.2001044	8.2080002	8.2157550	8.2233737	8.2308610	8.2382214	30
31	8.2002372	8.2081306	8.2158831	8.2234996	8.2309847	8.2383430	29
32	8.2003699	8.2082610	8.2160111	8.2236254	8.2311084	8.2384646	28
33	8.2005026	8.2083913	8.2161391	8.2237512	8.2312320	8.2385862	27
34	8.2006353	8.2085216	8.2162671	8.2238769	8.2313556	8.2387077	26
35	8.2007679	8.2086518	8.2163950	8.2240026	8.2314792	8.2388292	25
36	8.2009005	8.2087820	8.2165229	8.2241283	8.2316027	8.2389506	24
37	8.2010330	8.2089121	8.2166508	8.2242539	8.2317262	8.2390720	23
38	8.2011655	8.2090422	8.2167786	8.2243795	8.2318496	8.2391934	22
39	8.2012980	8.2091723	8.2169064	8.2245051	8.2319731	8.2393148	21
40	8.2014304	8.2093024	8.2170341	8.2246306	8.2320965	8.2394361	20
41	8.2015628	8.2094324	8.2171618	8.2247561	8.2322198	8.2395574	19
42	8.2016951	8.2095623	8.2172895	8.2248815	8.2323431	8.2396786	18
43	8.2018274	8.2096922	8.2174171	8.2250070	8.2324664	8.2397998	17
44	8.2019597	8.2098221	8.2175447	8.2251323	8.2325896	8.2399210	16
45	8.2020919	8.2099520	8.2176723	8.2252577	8.2327128	8.2400422	15
46	8.2022241	8.2100818	8.2177998	8.2253830	8.2328360	8.2401633	14
47	8.2023562	8.2102115	8.2179273	8.2255083	8.2329592	8.2402844	13
48	8.2024883	8.2103412	8.2180547	8.2256335	8.2330823	8.2404054	12
49	8.2026203	8.2104709	8.2181821	8.2257587	8.2332053	8.2405264	11
50	8.2027523	8.2106006	8.2183095	8.2258839	8.2333284	8.2406474	10
51	8.2028843	8.2107302	8.2184368	8.2260090	8.2334514	8.2407683	9
52	8.2030163	8.2108598	8.2185641	8.2261341	8.2335743	8.2408892	8
53	8.2031481	8.2109893	8.2186913	8.2262591	8.2336973	8.2410101	7
54	8.2032800	8.2111188	8.2188186	8.2263841	8.2338202	8.2411310	6
55	8.2034118	8.2112482	8.2189457	8.2265091	8.2339430	8.2412518	5
56	8.2035436	8.2113777	8.2190729	8.2266341	8.2340659	8.2413725	4
57	8.2036753	8.2115070	8.2192000	8.2267590	8.2341886	8.2414933	3
58	8.2038070	8.2116364	8.2193270	8.2268839	8.2343114	8.2416140	2
59	8.2039387	8.2117657	8.2194541	8.2270087	8.2344341	8.2417347	1
60	8.2040703	8.2118949	8.2195811	8.2271335	8.2345568	8.2418553	0
″	5′	4′	3′	2′	1′	0′	″

′′	54′	55′	56′	57′	58′	59′	′′
0	8.1961566	8.2041259	8.2119526	8.2196408	8.2271953	8.2346208	60
1	8.1962896	8.2042575	8.2120818	8.2197678	8.2273201	8.2347435	59
2	8.1964226	8.2043890	8.2122110	8.2198947	8.2274449	8.2348661	58
3	8.1965576	8.2045206	8.2123402	8.2200216	8.2275696	8.2349887	57
4	8.1966915	8.2046521	8.2124694	8.2201485	8.2276943	8.2351113	56
5	8.1968254	8.2047835	8.2125985	8.2202754	8.2278190	8.2352339	55
6	8.1969592	8.2049149	8.2127275	8.2204022	8.2279436	8.2353564	54
7	8.1970930	8.2050463	8.2128566	8.2205289	8.2280682	8.2354789	53
8	8.1972268	8.2051776	8.2129855	8.2206557	8.2281927	8.2356013	52
9	8.1973605	8.2053089	8.2131145	8.2207824	8.2283173	8.2357237	51
10	8.1974942	8.2054401	8.2132434	8.2209090	8.2284417	8.2358461	50
11	8.1976278	8.2055714	8.2133723	8.2210356	8.2285662	8.2359684	49
12	8.1977614	8.2057026	8.2135011	8.2211622	8.2286906	8.2360908	48
13	8.1978949	8.2058337	8.2136299	8.2212888	8.2288150	8.2362130	47
14	8.1980284	8.2059647	8.2137587	8.2214153	8.2289393	8.2363353	46
15	8.1981619	8.2060958	8.2138874	8.2215418	8.2290636	8.2364575	45
16	8.1982953	8.2062268	8.2140161	8.2216682	8.2291879	8.2365796	44
17	8.1984287	8.2063578	8.2141447	8.2217946	8.2293121	8.2367018	43
18	8.1985621	8.2064887	8.2142733	8.2219210	8.2294363	8.2368239	42
19	8.1986954	8.2066196	8.2144019	8.2220473	8.2295605	8.2369460	41
20	8.1988286	8.2067505	8.2145304	8.2221736	8.2296846	8.2370680	40
21	8.1989619	8.2068813	8.2146589	8.2222998	8.2298087	8.2371900	39
22	8.1990950	8.2070120	8.2147874	8.2224260	8.2299327	8.2373120	38
23	8.1992282	8.2071428	8.2149158	8.2225522	8.2300568	8.2374339	37
24	8.1993613	8.2072735	8.2150442	8.2226784	8.2301807	8.2375558	36
25	8.1994943	8.2074041	8.2151725	8.2228045	8.2303047	8.2376776	35
26	8.1996273	8.2075348	8.2153008	8.2229305	8.2304285	8.2377995	34
27	8.1997603	8.2076653	8.2154291	8.2230565	8.2305525	8.2379213	33
28	8.1998933	8.2077959	8.2155573	8.2231826	8.2306763	8.2380430	32
29	8.2000262	8.2079264	8.2156855	8.2233085	8.2308001	8.2381648	31
30	8.2001590	8.2080568	8.2158137	8.2234345	8.2309239	8.2382865	30
31	8.2002918	8.2081873	8.2159418	8.2235604	8.2310476	8.2384081	29
32	8.2004246	8.2083176	8.2160699	8.2236862	8.2311713	8.2385297	28
33	8.2005573	8.2084480	8.2161979	8.2238120	8.2312950	8.2386513	27
34	8.2006900	8.2085783	8.2163259	8.2239378	8.2314186	8.2387729	26
35	8.2008227	8.2087086	8.2164539	8.2240635	8.2315422	8.2388944	25
36	8.2009553	8.2088388	8.2165818	8.2241892	8.2316658	8.2390159	24
37	8.2010879	8.2089690	8.2167097	8.2243149	8.2317893	8.2391373	23
38	8.2012204	8.2090991	8.2168375	8.2244405	8.2319128	8.2392588	22
39	8.2013529	8.2092292	8.2169653	8.2245661	8.2320363	8.2393802	21
40	8.2014853	8.2093593	8.2170931	8.2246917	8.2321597	8.2395015	20
41	8.2016177	8.2094893	8.2172209	8.2248172	8.2322831	8.2396228	19
42	8.2017501	8.2096193	8.2173486	8.2249427	8.2324064	8.2397441	18
43	8.2018824	8.2097493	8.2174762	8.2250682	8.2325297	8.2398654	17
44	8.2020147	8.2098792	8.2176038	8.2251936	8.2326530	8.2399866	16
45	8.2021470	8.2100091	8.2177314	8.2253190	8.2327763	8.2401078	15
46	8.2022792	8.2101389	8.2178590	8.2254443	8.2328995	8.2402289	14
47	8.2024113	8.2102687	8.2179865	8.2255696	8.2330227	8.2403500	13
48	8.2025435	8.2103985	8.2181140	8.2256949	8.2331458	8.2404711	12
49	8.2026756	8.2105282	8.2182414	8.2258201	8.2332689	8.2405922	11
50	8.2028076	8.2106579	8.2183688	8.2259453	8.2333920	8.2407132	10
51	8.2029396	8.2107875	8.2184962	8.2260705	8.2335150	8.2408342	9
52	8.2030716	8.2109171	8.2186235	8.2261956	8.2336380	8.2409551	8
53	8.2032035	8.2110467	8.2187508	8.2263207	8.2337610	8.2410760	7
54	8.2033354	8.2111762	8.2188780	8.2264457	8.2338839	8.2411969	6
55	8.2034672	8.2113057	8.2190053	8.2265708	8.2340068	8.2413177	5
56	8.2035990	8.2114351	8.2191324	8.2266957	8.2341297	8.2414386	4
57	8.2037308	8.2115646	8.2192595	8.2268207	8.2342525	8.2415593	3
58	8.2038625	8.2116939	8.2193867	8.2269455	8.2343753	8.2416801	2
59	8.2039942	8.2118233	8.2195137	8.2270703	8.2344980	8.2418008	1
60	8.2041259	8.2119526	8.2196408	8.2271953	8.2346208	8.2419215	0
′′	5′	4′	3′	2′	1′	0′	′′

	l. cos.	dif. 10″	l. cot.	dif.	
0′	1,0000000	0,0	3,8373039	3010300	60′
3′	1,0000000		1249388	1249388	3′
1′	1,0000000		3,5362739	669468	57′
3′	1,0000000	0,3	3,3601826	457575	3′
2′	9,9999999		3,2924438	347621	58′
3′	9,9999999		3,1383338	280287	3′
3′	9,9999998		3,0591525	234811	57′
3′	9,9999998		2,9922057	202034	3′
4′	9,9999997		2,9342137	177288	56′
3′	9,9999996		2,8830511	157943	3′
5′	9,9999995		2,8373036	142405	55′
3′	9,9999994		2,7959108	129650	3′
6′	9,9999993		2,7581222	122345	54′
3′	9,9999992		2,7233600	109564	3′
7′	9,9999991		2,6911752	102192	53′
3′	9,9999990	0,6	2,6612119	95453	3′
8′	9,9999988		2,6331831	89549	52′
3′	9,9999987		2,6068541	84332	3′
9′	9,9999985		2,5820304	79690	51′
3′	9,9999983		2,5585492	75552	3′
10′	9,9999982	0,7	2,5362727	71787	50′
3′	9,9999980		2,5150832	68394	3′
11′	9,9999978		2,4948757	65309	49′
3′	9,9999976		2,4756744	62490	3′
12′	9,9999974		2,4570909	59904	48′
3′	9,9999971		2,4393620	57524	3′
13′	9,9999969		2,4225285	55326	47′
3′	9,9999967		2,4065379	53289	3′
14′	9,9999964		2,3911434	51397	46′
3′	9,9999961		2,3749033	49635	3′
15′	9,9999959	1,0	2,3601799	47990	45′
3′	9,9999956		2,3459392	46449	3′
16′	9,9999953		2,3321855	45006	41′
3′	9,9999950		2,3187865	43649	3′
17′	9,9999947	1,2	2,3058214	42371	43′
3′	9,9999944		2,2932321	41167	3′
18′	9,9999940		2,2809374	40028	42′
3′	9,9999937		2,2690380	38952	3′
19′	9,9999934		2,2575159	37931	41′
3′	9,9999930		2,2462346	36962	3′
20′	9,9999927	1,3	2,2352390	36042	40′
3′	9,9999923		2,2245149	36167	3′
21′	9,9999919		2,2140492	34333	39′
3′	9,9999915		2,2038298	33538	3′
22′	9,9999911		2,1938453	32778	38′
3′	9,9999907		2,1840852	32053	3′
23′	9,9999903		2,1745396	31358	37′
3′	9,9999899		2,1651993	30694	3′
24′	9,9999894		2,1560566	30056	36′
3′	9,9999890	1,6	2,1471004	29444	3′
25′	9,9999885		2,1383262	28858	35′
3′	9,9999881		2,1297257	28294	3′
26′	9,9999876		2,1212923	27752	34′
3′	9,9999871		2,1130194	27230	3′
27′	9,9999866		2,1049012	26727	33′
3′	9,9999861		2,0969319	26242	3′
28′	9,9999856		2,0891062	25775	32′
3′	9,9999851		2,0814191	25325	3′
29′	9,9999845		2,0738656	24889	31′
3′	9,9999840		2,0664412	24469	3′
30′	9,9999835		2,0591416		30′
	l. sin.	10″ dif.	l. tang.	dif.	

	l. cos.	dif. 10″	l. cot.	diff. 10′	
30′	9,9999835	2,0	2,0591416	24062	30′
3′	9,9999829		2,0519626	23668	3′
31′	9,9999823		2,0449004	23288	29′
3′	9,9999818		2,0379512	22920	3′
32′	9,9999812		2,0311114	22563	28′
3′	9,9999806		2,0243776	22216	3′
33′	9,9999800		2,0177466	21880	27′
3′	9,9999794		2,0112153	21554	3′
34′	9,9999788		2,0047808	21238	26′
3′	9,9999781		1,9984402	20931	3′
35′	9,9999775		1,9921908	20633	25′
3′	9,9999768		1,9860301	20343	3′
36′	9,9999762	2,3	1,9799559	20061	24′
3′	9,9999755		1,9739647	19787	3′
37′	9,9999748		1,9680554	19521	23′
3′	9,9999742		1,9622254	19261	3′
38′	9,9999735		1,9564726	19008	22′
3′	9,9999728		1,9507950	18762	3′
39′	9,9999721		1,9451906	18521	21′
3′	9,9999713		1,9396577	18288	3′
40′	9,9999706		1,9341943	18060	20′
3′	9,9999699		1,9287988	17838	3′
41′	9,9999691	2,6	1,9234694	17620	19′
3′	9,9999684		1,9182047	17408	3′
42′	9,9999676		1,9130030	17202	18′
3′	9,9999668		1,9078628	16999	3′
43′	9,9999660		1,9027824	16803	17′
3′	9,9999652		1,8977614	16609	3′
44′	9,9999644		1,8927975	16421	16′
3′	9,9999636		1,8878896	16237	3′
45′	9,9999628		1,8830366	16057	15′
3′	9,9999620		1,8782371	15881	3′
46′	9,9999611		1,8734901	15708	14′
3′	9,9999603	3,0	1,8687944	15540	3′
47′	9,9999594		1,8641490	15376	13′
3′	9,9999585		1,8595526	15213	3′
48′	9,9999577		1,8550044	15055	12′
3′	9,9999568		1,8505033	14900	3′
49′	9,9999559		1,8460484	14749	11′
3′	9,9999550		1,8416387	14600	3′
50′	9,9999541	3,3	1,8372733	14455	10′
3′	9,9999531		1,8329513	14312	3′
51′	9,9999522		1,8286718	14171	9′
3′	9,9999513		1,8244342	14036	3′
52′	9,9999503		1,8202374	13899	8′
3′	9,9999494		1,8160808	13767	3′
53′	9,9999484		1,8119636	13638	7′
3′	9,9999474		1,8078850	13510	3′
54′	9,9999464		1,8038444	13386	6′
3′	9,9999454		1,7998410	13263	3′
55′	9,9999444		1,7958741	13142	5′
3′	9,9999434		1,7919432	13026	3′
56′	9,9999424		1,7880474	12908	4′
3′	9,9999413		1,7841863	12794	3′
57′	9,9999403	3,6	1,7803592	12682	3′
3′	9,9999392		1,7765655	12572	3′
58′	9,9999382		1,7728047	12464	2′
3′	9,9999371		1,7690761	12358	3′
59′	9,9999360		1,7653792	12253	1′
3′	9,9999349		1,7617136	12106	3′
60′	9,9999338		1,7580785		0′
	l. sin.	10″ dif.	l. tang.	10″ diff.	

′	″	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.		′
0	0	8.2418553	12046	9.9999338	8.2419215	12049	1.7580785	0	60
	10	8.2430599	12012	9.9999335	8.2431264	12016	1.7568736	50	
	20	8.2442611	11980	9.9999331	8.2443280	11983	1.7556720	40	
	30	8.2454591	11946	9.9999327	8.2455263	11950	1.7544737	30	
	40	8.2466537	11914	9.9999324	8.2467213	11918	1.7532787	20	
	50	8.2478451	11881	9.9999320	8.2479131	11884	1.7520869	10	
1	0	8.2490332	11848	9.9999316	8.2491015	11853	1.7508985	0	59
	10	8.2502180	11816	9.9999313	8.2502868	11820	1.7497132	50	
	20	8.2513996	11785	9.9999309	8.2514688	11788	1.7485312	40	
	30	8.2525781	11752	9.9999305	8.2526476	11756	1.7473524	30	
	40	8.2537533	11721	9.9999301	8.2538232	11724	1.7461768	20	
	50	8.2549254	11689	9.9999297	8.2549956	11693	1.7450044	10	
2	0	8.2560943	11657	9.9999294	8.2561649	11661	1.7438351	0	58
	10	8.2572600	11627	9.9999290	8.2573310	11631	1.7426690	50	
	20	8.2584227	11595	9.9999286	8.2584941	11599	1.7415059	40	
	30	8.2595822	11565	9.9999282	8.2596540	11568	1.7403460	30	
	40	8.2607387	11533	9.9999278	8.2608108	11538	1.7391892	20	
	50	8.2618920	11504	9.9999275	8.2619646	11507	1.7380354	10	
3	0	8.2630424	11472	9.9999271	8.2631153	11477	1.7368847	0	57
	10	8.2641896	11443	9.9999267	8.2642630	11446	1.7357370	50	
	20	8.2653339	11412	9.9999263	8.2654076	11416	1.7345924	40	
	30	8.2664751	11383	9.9999259	8.2665492	11387	1.7334508	30	
	40	8.2676134	11353	9.9999255	8.2676879	11357	1.7323121	20	
	50	8.2687487	11323	9.9999251	8.2688236	11347	1.7311764	10	
4	0	8.2698810	11294	9.9999247	8.2699563	11297	1.7300437	0	56
	10	8.2710104	11264	9.9999243	8.2710860	11269	1.7289140	50	
	20	8.2721368	11236	9.9999239	8.2722129	11239	1.7277871	40	
	30	8.2732604	11206	9.9999236	8.2733368	11210	1.7266632	30	
	40	8.2743810	11177	9.9999232	8.2744578	11182	1.7255422	20	
	50	8.2754987	11149	9.9999228	8.2755760	11152	1.7244240	10	
5	0	8.2766136	11120	9.9999224	8.2766912	11124	1.7233088	0	55
	10	8.2777255	11092	9.9999220	8.2778036	11096	1.7221964	50	
	20	8.2788348	11063	9.9999216	8.2789132	11068	1.7210868	40	
	30	8.2799411	11036	9.9999212	8.2800200	11039	1.7199800	30	
	40	8.2810447	11007	9.9999208	8.2811239	11012	1.7188761	20	
	50	8.2821454	10980	9.9999204	8.2822251	10983	1.7177749	10	
6	0	8.2832434	10952	9.9999200	8.2833234	10956	1.7166766	0	54
	10	8.2843386	10924	9.9999196	8.2844190	10928	1.7155810	50	
	20	8.2854310	10897	9.9999191	8.2855118	10901	1.7144882	40	
	30	8.2865207	10869	9.9999187	8.2866019	10874	1.7133981	30	
	40	8.2876076	10843	9.9999183	8.2876893	10847	1.7123107	20	
	50	8.2886919	10815	9.9999179	8.2887740	10819	1.7112260	10	
7	0	8.2897734	10789	9.9999175	8.2898559	10793	1.7101441	0	53
	10	8.2908523	10762	9.9999171	8.2909352	10766	1.7090648	50	
	20	8.2919285	10736	9.9999167	8.2920118	10739	1.7079882	40	
	30	8.2930020	10709	9.9999163	8.2930857	10713	1.7069143	30	
	40	8.2940729	10682	9.9999159	8.2941570	10686	1.7058430	20	
	50	8.2951411	10656	9.9999154	8.2952256	10661	1.7047744	10	
8	0	8.2962067	10630	9.9999150	8.2962917	10634	1.7037083	0	52
	10	8.2972697	10604	9.9999146	8.2973551	10608	1.7026449	50	
	20	8.2983301	10578	9.9999142	8.2984159	10583	1.7015841	40	
	30	8.2993879	10553	9.9999138	8.2994742	10556	1.7005258	30	
	40	8.3004432	10527	9.9999134	8.3005298	10532	1.6994702	20	
	50	8.3014959	10501	9.9999129	8.3015830	10505	1.6984170	10	
9	0	8.3025460	10477	9.9999125	8.3026335	10481	1.6973665	0	51
	10	8.3035937	10451	9.9999121	8.3036816	10455	1.6963184	50	
	20	8.3046388	10425	9.9999117	8.3047271	10430	1.6952729	40	
	30	8.3056813	10401	9.9999112	8.3057701	10405	1.6942299	30	
	40	8.3067214	10376	9.9999108	8.3068106	10380	1.6931894	20	
	50	8.3077590	10351	9.9999104	8.3078486	10356	1.6921514	10	
10	0	8.3087941		9.9999100	8.3088842		1.6911158	0	50
′	″	l. cosin.	diff.	l. sin.	l. cotan.	diff.	l. tang.		′

′	″	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	″	′
10	0	8.3087941	10327	9.9999100	8.3088842	10331	1.6911158	0	50
	10	8.3098268	10302	9.9999095	8.3099173	10306	1.6900827	50	
	20	8.3108570	10278	9.9999091	8.3109479	10282	1.6890521	40	
	30	8.3118848	10253	9.9999087	8.3119761	10258	1.6880239	30	
	40	8.3129101	10230	9.9999082	8.3130019	10234	1.6869981	20	
	50	8.3139331	10205	9.9999078	8.3140253	10209	1.6859747	10	
11	0	8.3149536	10181	9.9999074	8.3150462	10186	1.6849538	0	49
	10	8.3159717	10158	9.9999069	8.3160648	10162	1.6839352	50	
	20	8.3169875	10133	9.9999065	8.3170810	10138	1.6829190	40	
	30	8.3180008	10111	9.9999061	8.3180948	10114	1.6819052	30	
	40	8.3190119	10086	9.9999056	8.3191062	10092	1.6808938	20	
	50	8.3200206	10064	9.9999052	8.3201154	10067	1.6798846	10	
12	0	8.3210269	10040	9.9999047	8.3211221	10045	1.6788779	0	48
	10	8.3220309	10017	9.9999043	8.3221266	10021	1.6778734	50	
	20	8.3230326	9993	9.9999039	8.3231287	9998	1.6768713	40	
	30	8.3240319	9971	9.9999034	8.3241285	9975	1.6758715	30	
	40	8.3250290	9948	9.9999030	8.3251260	9953	1.6748740	20	
	50	8.3260238	9925	9.9999025	8.3261213	9930	1.6738787	10	
13	0	8.3270163	9903	9.9999021	8.3271143	9907	1.6728857	0	47
	10	8.3280066	9880	9.9999016	8.3281050	9884	1.6718950	50	
	20	8.3289946	9858	9.9999012	8.3290934	9862	1.6709066	40	
	30	8.3299804	9835	9.9999007	8.3300796	9840	1.6699204	30	
	40	8.3309639	9813	9.9999003	8.3310636	9818	1.6689364	20	
	50	8.3319452	9791	9.9998998	8.3320454	9795	1.6679546	10	
14	0	8.3329243	9769	9.9998994	8.3330249	9774	1.6669761	0	46
	10	8.3339012	9747	9.9998989	8.3340023	9751	1.6659977	50	
	20	8.3348759	9725	9.9998985	8.3349774	9730	1.6650226	40	
	30	8.3358484	9703	9.9998980	8.3359504	9708	1.6640496	30	
	40	8.3368187	9682	9.9998976	8.3369212	9686	1.6630788	20	
	50	8.3377869	9660	9.9998971	8.3378898	9665	1.6621102	10	
15	0	8.3387529	9639	9.9998966	8.3388563	9643	1.6611437	0	45
	10	8.3397168	9617	9.9998962	8.3398206	9622	1.6601794	50	
	20	8.3406785	9597	9.9998957	8.3407828	9601	1.6592172	40	
	30	8.3416382	9575	9.9998953	8.3417429	9580	1.6582571	30	
	40	8.3425957	9553	9.9998948	8.3427009	9558	1.6572991	20	
	50	8.3435510	9533	9.9998943	8.3436567	9538	1.6563433	10	
16	0	8.3445043	9512	9.9998939	8.3446105	9516	1.6553895	0	44
	10	8.3454555	9492	9.9998934	8.3455621	9496	1.6544379	50	
	20	8.3464047	9470	9.9998929	8.3465117	9475	1.6534883	40	
	30	8.3473517	9450	9.9998925	8.3474592	9455	1.6525408	30	
	40	8.3482967	9429	9.9998920	8.3484047	9434	1.6515953	20	
	50	8.3492396	9409	9.9998915	8.3493481	9414	1.6506519	10	
17	0	8.3501805	9389	9.9998911	8.3502895	9393	1.6497105	0	43
	10	8.3511194	9368	9.9998906	8.3512288	9373	1.6487712	50	
	20	8.3520564	9348	9.9998901	8.3521661	9353	1.6478339	40	
	30	8.3529910	9328	9.9998896	8.3531014	9333	1.6468986	30	
	40	8.3539238	9308	9.9998892	8.3540347	9313	1.6459653	20	
	50	8.3548546	9289	9.9998887	8.3549660	9293	1.6450340	10	
18	0	8.3557835	9268	9.9998882	8.3558953	9273	1.6441047	0	42
	10	8.3567103	9248	9.9998877	8.3568226	9253	1.6431774	50	
	20	8.3576351	9229	9.9998872	8.3577479	9234	1.6422521	40	
	30	8.3585580	9210	9.9998868	8.3586713	9214	1.6413287	30	
	40	8.3594790	9189	9.9998863	8.3595927	9194	1.6404073	20	
	50	8.3603979	9171	9.9998858	8.3605121	9176	1.6394879	10	
19	0	8.3613150	9151	9.9998853	8.3614297	9156	1.6385703	0	41
	10	8.3622301	9132	9.9998848	8.3623453	9136	1.6376547	50	
	20	8.3631433	9112	9.9998843	8.3632589	9118	1.6367411	40	
	30	8.3640545	9094	9.9998839	8.3641707	9098	1.6358293	30	
	40	8.3649639	9074	9.9998834	8.3650805	9080	1.6349195	20	
	50	8.3658713	9056	9.9998829	8.3659885	9060	1.6340115	10	
20	0	8.3667769		9.9998824	8.3668945		1.6331055	0	40
′	″	l. cosin.	diff.	l. sin.	l. cotan.	diff.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
20	0	8.3667769	9037	9.9998824	5	8.3668945	9042	1.6331055	0	40
	10	8.3676806	9018	9.9998819	5	8.3677987	9023	1.6322013	50	
	20	8.3685824	8999	9.9998814	5	8.3687010	9004	1.6312990	40	
	30	8.3694823	8981	9.9998809	5	8.3696014	8985	1.6303986	30	
	40	8.3703804	8962	9.9998804	5	8.3704999	8968	1.6295001	20	
	50	8.3712766	8944	9.9998799	5	8.3713967	8948	1.6286033	10	
21	0	8.3721710	8925	9.9998794	5	8.3722915	8930	1.6277085	0	39
	10	8.3730635	8907	9.9998789	5	8.3731845	8912	1.6268155	50	
	20	8.3739542	8888	9.9998784	5	8.3740757	8894	1.6259243	40	
	30	8.3748430	8871	9.9998779	5	8.3749651	8876	1.6250349	30	
	40	8.3757301	8852	9.9998774	5	8.3758527	8857	1.6241473	20	
	50	8.3766153	8835	9.9998769	5	8.3767384	8839	1.6232616	10	
22	0	8.3774988	8816	9.9998764	5	8.3776223	8822	1.6223777	0	38
	10	8.3783804	8799	9.9998759	5	8.3785045	8804	1.6214955	50	
	20	8.3792603	8781	9.9998754	5	8.3793849	8785	1.6206151	40	
	30	8.3801384	8763	9.9998749	5	8.3802634	8769	1.6197366	30	
	40	8.3810147	8745	9.9998744	5	8.3811403	8750	1.6188597	20	
	50	8.3818892	8728	9.9998739	5	8.3820153	8733	1.6179847	10	
23	0	8.3827620	8710	9.9998734	5	8.3828886	8715	1.6171114	0	37
	10	8.3836330	8693	9.9998729	5	8.3837601	8698	1.6162399	50	
	20	8.3845023	8676	9.9998724	5	8.3846299	8681	1.6153701	40	
	30	8.3853699	8658	9.9998719	5	8.3854980	8663	1.6145020	30	
	40	8.3862357	8641	9.9998714	5	8.3863643	8647	1.6136357	20	
	50	8.3870998	8624	9.9998709	6	8.3872290	8628	1.6127710	10	
24	0	8.3879622	8607	9.9998703	5	8.3880918	8612	1.6119082	0	36
	10	8.3888229	8589	9.9998698	5	8.3889530	8595	1.6110470	50	
	20	8.3896818	8573	9.9998693	5	8.3898125	8578	1.6101875	40	
	30	8.3905391	8556	9.9998688	5	8.3906703	8561	1.6093297	30	
	40	8.3913947	8539	9.9998683	5	8.3915264	8544	1.6084736	20	
	50	8.3922486	8522	9.9998678	6	8.3923808	8528	1.6076192	10	
25	0	8.3931008	8505	9.9998672	5	8.3932336	8510	1.6067664	0	35
	10	8.3939513	8489	9.9998667	5	8.3940846	8494	1.6059154	50	
	20	8.3948002	8473	9.9998662	5	8.3949340	8478	1.6050660	40	
	30	8.3956475	8455	9.9998657	6	8.3957818	8461	1.6042182	30	
	40	8.3964930	8440	9.9998651	5	8.3966279	8445	1.6033721	20	
	50	8.3973370	8423	9.9998646	5	8.3974724	8428	1.6025276	10	
26	0	8.3981793	8406	9.9998641	5	8.3983152	8412	1.6016848	0	34
	10	8.3990199	8391	9.9998636	6	8.3991564	8395	1.6008436	50	
	20	8.3998590	8374	9.9998630	5	8.3999959	8380	1.6000041	40	
	30	8.4006964	8358	9.9998625	5	8.4008339	8363	1.5991661	30	
	40	8.4015322	8342	9.9998620	6	8.4016702	8348	1.5983298	20	
	50	8.4023664	8326	9.9998614	5	8.4025050	8331	1.5974950	10	
27	0	8.4031990	8310	9.9998609	5	8.4033381	8315	1.5966619	0	33
	10	8.4040300	8294	9.9998604	6	8.4041696	8300	1.5958304	50	
	20	8.4048594	8279	9.9998598	5	8.4049996	8284	1.5950004	40	
	30	8.4056873	8262	9.9998593	5	8.4058280	8268	1.5941720	30	
	40	8.4065135	8247	9.9998588	6	8.4066548	8252	1.5933452	20	
	50	8.4073382	8232	9.9998582	5	8.4074800	8237	1.5925200	10	
28	0	8.4081614	8215	9.9998577	5	8.4083037	8221	1.5916963	0	32
	10	8.4089829	8200	9.9998572	6	8.4091258	8205	1.5908742	50	
	20	8.4098029	8185	9.9998566	5	8.4099463	8190	1.5900537	40	
	30	8.4106214	8169	9.9998561	6	8.4107653	8175	1.5892347	30	
	40	8.4114383	8154	9.9998555	5	8.4115828	8160	1.5884172	20	
	50	8.4122537	8139	9.9998550	6	8.4123988	8144	1.5876012	10	
29	0	8.4130676	8124	9.9998544	5	8.4132132	8129	1.5867868	0	31
	10	8.4138800	8108	9.9998539	6	8.4140261	8113	1.5859739	50	
	20	8.4146908	8093	9.9998533	5	8.4148374	8099	1.5851626	40	
	30	8.4155001	8078	9.9998528	5	8.4156473	8083	1.5843527	30	
	40	8.4163079	8063	9.9998523	6	8.4164556	8069	1.5835444	20	
	50	8.4171142	8048	9.9998517	5	8.4172625	8054	1.5827375	10	
30	0	8.4179190		9.9998512		8.4180679		1.5819321	0	30
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
30	0	8.4179190	8033	9.9998512	6	8.4180679	8038	1.5819321	0	30
	10	8.4187223	8019	9.9998506	6	8.4188717	8024	1.5811283	50
	20	8.4195242	8003	9.9998500	5	8.4196741	8009	1.5803259	40
	30	8.4203245	7989	9.9998495	6	8.4204750	7995	1.5795250	30
	40	8.4211234	7974	9.9998489	5	8.4212745	7980	1.5787255	20
	50	8.4219208	7960	9.9998484	6	8.4220725	7965	1.5779275	10
31	0	8.4227168	7945	9.9998478	5	8.4228690	7950	1.5771310	0	29
	10	8.4235113	7930	9.9998473	6	8.4236640	7936	1.5763360	50
	20	8.4243043	7916	9.9998467	6	8.4244576	7922	1.5755424	40
	30	8.4250959	7902	9.9998461	5	8.4252498	7907	1.5747502	30
	40	8.4258861	7887	9.9998456	6	8.4260405	7893	1.5739595	20
	50	8.4266748	7873	9.9998450	5	8.4268298	7878	1.5731702	10
32	0	8.4274621	7859	9.9998445	5	8.4276176	7865	1.5723824	0	28
	10	8.4282480	7844	9.9998439	6	8.4284041	7850	1.5715959	50
	20	8.4290324	7830	9.9998433	5	8.4291891	7836	1.5708109	40
	30	8.4298154	7817	9.9998428	6	8.4299727	7822	1.5700273	30
	40	8.4305971	7802	9.9998422	6	8.4307549	7807	1.5692451	20
	50	8.4313773	7788	9.9998416	5	8.4315356	7794	1.5684644	10
33	0	8.4321561	7774	9.9998411	6	8.4323150	7780	1.5676850	0	27
	10	8.4329335	7760	9.9998405	6	8.4330930	7766	1.5669070	50
	20	8.4337095	7747	9.9998399	6	8.4338696	7752	1.5661304	40
	30	8.4344842	7732	9.9998393	5	8.4346448	7739	1.5653552	30
	40	8.4352574	7719	9.9998388	6	8.4354187	7724	1.5645813	20
	50	8.4360293	7706	9.9998382	6	8.4361911	7711	1.5638089	10
34	0	8.4367999	7691	9.9998376	6	8.4369622	7698	1.5630378	0	26
	10	8.4375690	7678	9.9998370	5	8.4377320	7683	1.5622680	50
	20	8.4383368	7664	9.9998365	6	8.4385003	7670	1.5614997	40
	30	8.4391032	7651	9.9998359	6	8.4392673	7657	1.5607327	30
	40	8.4398683	7638	9.9998353	6	8.4400330	7643	1.5599670	20
	50	8.4406321	7623	9.9998347	5	8.4407973	7630	1.5592027	10
35	0	8.4413944	7611	9.9998342	6	8.4415603	7616	1.5584397	0	25
	10	8.4421555	7597	9.9998336	6	8.4423219	7603	1.5576781	50
	20	8.4429152	7584	9.9998330	6	8.4430822	7590	1.5569178	40
	30	8.4436736	7571	9.9998324	6	8.4438412	7577	1.5561588	30
	40	8.4444307	7558	9.9998318	6	8.4445989	7563	1.5554011	20
	50	8.4451865	7544	9.9998312	6	8.4453552	7551	1.5546448	10
36	0	8.4459409	7531	9.9998306	5	8.4461103	7537	1.5538897	0	24
	10	8.4466940	7519	9.9998301	6	8.4468640	7524	1.5531360	50
	20	8.4474459	7505	9.9998295	6	8.4476164	7511	1.5523836	40
	30	8.4481964	7492	9.9998289	6	8.4483675	7498	1.5516325	30
	40	8.4489456	7480	9.9998283	6	8.4491173	7486	1.5508827	20
	50	8.4496936	7466	9.9998277	6	8.4498659	7472	1.5501341	10
37	0	8.4504402	7454	9.9998271	6	8.4506131	7460	1.5493869	0	23
	10	8.4511856	7441	9.9998265	6	8.4513591	7447	1.5486409	50
	20	8.4519297	7428	9.9998259	6	8.4521038	7434	1.5478962	40
	30	8.4526725	7416	9.9998253	6	8.4528472	7421	1.5471528	30
	40	8.4534141	7402	9.9998247	6	8.4535893	7409	1.5464107	20
	50	8.4541543	7391	9.9998241	6	8.4543302	7397	1.5456698	10
38	0	8.4548934	7377	9.9998235	6	8.4550699	7383	1.5449301	0	22
	10	8.4556311	7366	9.9998229	6	8.4558082	7371	1.5441918	50
	20	8.4563677	7352	9.9998223	6	8.4565453	7359	1.5434547	40
	30	8.4571029	7340	9.9998217	6	8.4572812	7346	1.5427188	30
	40	8.4578369	7328	9.9998211	6	8.4580158	7334	1.5419842	20
	50	8.4585697	7316	9.9998205	6	8.4587492	7322	1.5412508	10
39	0	8.4593013	7303	9.9998199	6	8.4594814	7309	1.5405186	0	21
	10	8.4600316	7291	9.9998193	6	8.4602123	7297	1.5397877	50
	20	8.4607607	7279	9.9998187	6	8.4609420	7285	1.5390580	40
	30	8.4614886	7266	9.9998181	6	8.4616705	7273	1.5383295	30
	40	8.4622152	7254	9.9998175	7	8.4623978	7260	1.5376022	20
	50	8.4629406	7243	9.9998168	6	8.4631238	7248	1.5368762	10
40	0	8.4636649		9.9998162		8.4638486		1.5361514	0	20
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
40	0	8.4636649	7230	9.9998162	6	8.4638486	7237	1.5361514	0	20
	10	8.4643879	7218	9.9998156	6	8.4645723	7224	1.5354277	50	
	20	8.4651097	7206	9.9998150	6	8.4652947	7212	1.5347053	40	
	30	8.4658303	7194	9.9998144	6	8.4660159	7201	1.5339841	30	
	40	8.4665497	7183	9.9998138	6	8.4667360	7188	1.5332640	20	
	50	8.4672680	7170	9.9998132	7	8.4674548	7177	1.5325452	10	
41	0	8.4679850	7159	9.9998125	6	8.4681725	7165	1.5318275	0	19
	10	8.4687009	7147	9.9998119	6	8.4688890	7153	1.5311110	50	
	20	8.4694156	7136	9.9998113	6	8.4696043	7141	1.5303957	40	
	30	8.4701291	7123	9.9998107	6	8.4703184	7129	1.5296816	30	
	40	8.4708414	7112	9.9998101	7	8.4710313	7118	1.5289687	20	
	50	8.4715526	7100	9.9998094	6	8.4717431	7107	1.5282569	10	
42	0	8.4722626	7088	9.9998088	6	8.4724538	7094	1.5275462	0	18
	10	8.4729714	7077	9.9998082	6	8.4731632	7083	1.5268368	50	
	20	8.4736791	7065	9.9998076	7	8.4738715	7072	1.5261285	40	
	30	8.4743856	7054	9.9998069	6	8.4745787	7060	1.5254213	30	
	40	8.4750910	7043	9.9998063	6	8.4752847	7049	1.5247153	20	
	50	8.4757953	7031	9.9998057	7	8.4759896	7037	1.5240104	10	
43	0	8.4764984	7019	9.9998050	6	8.4766933	7026	1.5233067	0	17
	10	8.4772003	7009	9.9998044	6	8.4773959	7015	1.5226041	50	
	20	8.4779012	6997	9.9998038	7	8.4780974	7003	1.5219026	40	
	30	8.4786009	6985	9.9998031	6	8.4787977	6992	1.5212023	30	
	40	8.4792994	6975	9.9998025	6	8.4794969	6981	1.5205031	20	
	50	8.4799969	6963	9.9998019	7	8.4801950	6970	1.5198050	10	
44	0	8.4806932	6952	9.9998012	6	8.4808920	6958	1.5191080	0	16
	10	8.4813884	6941	9.9998006	6	8.4815878	6948	1.5184122	50	
	20	8.4820825	6930	9.9998000	7	8.4822826	6936	1.5177174	40	
	30	8.4827755	6919	9.9997993	6	8.4829762	6925	1.5170238	30	
	40	8.4834674	6908	9.9997987	7	8.4836687	6915	1.5163313	20	
	50	8.4841582	6897	9.9997980	6	8.4843602	6903	1.5156398	10	
45	0	8.4848479	6886	9.9997974	6	8.4850505	6892	1.5149495	0	15
	10	8.4855365	6875	9.9997968	7	8.4857397	6882	1.5142603	50	
	20	8.4862240	6864	9.9997961	6	8.4864279	6870	1.5135721	40	
	30	8.4869104	6853	9.9997955	7	8.4871149	6860	1.5128851	30	
	40	8.4875957	6843	9.9997948	6	8.4878009	6849	1.5121991	20	
	50	8.4882800	6832	9.9997942	7	8.4884858	6838	1.5115142	10	
46	0	8.4889632	6821	9.9997935	6	8.4891696	6828	1.5108304	0	14
	10	8.4896453	6810	9.9997929	7	8.4898524	6817	1.5101476	50	
	20	8.4903263	6800	9.9997922	6	8.4905341	6806	1.5094659	40	
	30	8.4910063	6789	9.9997916	7	8.4912147	6795	1.5087853	30	
	40	8.4916852	6778	9.9997909	6	8.4918942	6785	1.5081058	20	
	50	8.4923630	6768	9.9997903	7	8.4925727	6775	1.5074273	10	
47	0	8.4930398	6757	9.9997896	8	8.4932502	6764	1.5067498	0	13
	10	8.4937155	6747	9.9997889	6	8.4939266	6753	1.5060734	50	
	20	8.4943902	6736	9.9997883	7	8.4946019	6743	1.5053981	40	
	30	8.4950638	6726	9.9997876	6	8.4952762	6732	1.5047238	30	
	40	8.4957364	6715	9.9997870	7	8.4959494	6722	1.5040506	20	
	50	8.4964079	6705	9.9997863	7	8.4966216	6712	1.5033784	19	
48	0	8.4970784	6695	9.9997856	6	8.4972928	6701	1.5027072	0	12
	10	8.4977479	6684	9.9997850	7	8.4979629	6691	1.5020371	50	
	20	8.4984163	6675	9.9997843	6	8.4986320	6681	1.5013680	40	
	30	8.4990838	6663	9.9997837	7	8.4993001	6670	1.5006999	30	
	40	8.4997501	6654	9.9997830	7	8.4999671	6661	1.5000329	20	
	50	8.5004155	6643	9.9997823	6	8.5006332	6650	1.4993668	10	
49	0	8.5010798	6634	9.9997817	7	8.5012982	6640	1.4987018	0	11
	10	8.5017432	6623	9.9997810	7	8.5019622	6630	1.4980378	50	
	20	8.5024055	6613	9.9997803	6	8.5026252	6619	1.4973748	40	
	30	8.5030668	6603	9.9997797	7	8.5032871	6610	1.4967129	30	
	40	8.5037271	6593	9.9997790	7	8.5039481	6600	1.4960519	20	
	50	8.5043864	6583	9.9997783	7	8.5046081	6590	1.4953919	10	
50	0	8.5050447		9.9997776		8.5052671		1.4947329	0	10
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	′
50	0	8.5050447	6573	9.9997776	6	8.5052671	6579	1.4947329	0	10
	10	8.5057020	6563	9.9997770	7	8.5059250	6570	1.4940750	50
	20	8.5063583	6553	9.9997763	7	8.5065820	6560	1.4934180	40
	30	8.5070136	6543	9.9997756	7	8.5072380	6550	1.4927620	30
	40	8.5076679	6534	9.9997749	6	8.5078930	6540	1.4921070	20
	50	8.5083213	6523	9.9997743	7	8.5085470	6531	1.4914530	10
51	0	8.5089736	6514	9.9997736	7	8.5092001	6520	1.4907999	0	9
	10	8.5096250	6504	9.9997729	7	8.5098521	6511	1.4901479	50
	20	8.5102754	6494	9.9997722	7	8.5105032	6501	1.4894968	40
	30	8.5109248	6485	9.9997715	7	8.5111533	6492	1.4888467	30
	40	8.5115733	6475	9.9997708	6	8.5118025	6481	1.4881975	20
	50	8.5122208	6465	9.9997702	7	8.5124506	6472	1.4875494	10
52	0	8.5128673	6456	9.9997695	7	8.5130978	6463	1.4869022	0	8
	10	8.5135129	6446	9.9997688	7	8.5137441	6453	1.4862559	50
	20	8.5141575	6436	9.9997681	7	8.5143894	6443	1.4856106	40
	30	8.5148011	6427	9.9997674	7	8.5150337	6434	1.4849663	30
	40	8.5154438	6418	9.9997667	7	8.5156771	6424	1.4843229	20
	50	8.5160856	6408	9.9997660	7	8.5163195	6415	1.4836805	10
53	0	8.5167264	6398	9.9997653	7	8.5169610	6406	1.4830390	0	7
	10	8.5173662	6389	9.9997646	6	8.5176016	6396	1.4823984	50
	20	8.5180051	6380	9.9997640	7	8.5182412	6386	1.4817588	40
	30	8.5186431	6370	9.9997633	7	8.5188798	6377	1.4811202	30
	40	8.5192801	6361	9.9997626	7	8.5195175	6368	1.4804825	20
	50	8.5199162	6352	9.9997619	7	8.5201543	6359	1.4798457	10
54	0	8.5205514	6342	9.9997612	7	8.5207902	6349	1.4792098	0	6
	10	8.5211856	6333	9.9997605	7	8.5214251	6340	1.4785749	50
	20	8.5218189	6324	9.9997598	7	8.5220591	6331	1.4779409	40
	30	8.5224513	6315	9.9997591	7	8.5226922	6322	1.4773078	30
	40	8.5230828	6305	9.9997584	7	8.5233244	6313	1.4766756	20
	50	8.5237133	6297	9.9997577	7	8.5239557	6303	1.4760443	10
55	0	8.5243430	6287	9.9997570	7	8.5245860	6294	1.4754140	0	5
	10	8.5249717	6278	9.9997563	8	8.5252154	6285	1.4747846	50
	20	8.5255995	6269	9.9997555	7	8.5258439	6277	1.4741561	40
	30	8.5262264	6260	9.9997548	7	8.5264716	6267	1.4735284	30
	40	8.5268524	6251	9.9997541	7	8.5270983	6258	1.4729017	20
	50	8.5274775	6242	9.9997534	7	8.5277241	6249	1.4722759	10
56	0	8.5281017	6233	9.9997527	7	8.5283490	6240	1.4716510	0	4
	10	8.5287250	6224	9.9997520	7	8.5289730	6231	1.4710270	50
	20	8.5293474	6215	9.9997513	7	8.5295961	6222	1.4704039	40
	30	8.5299689	6206	9.9997506	7	8.5302183	6214	1.4697817	30
	40	8.5305895	6198	9.9997499	8	8.5308397	6204	1.4691603	20
	50	8.5312093	6188	9.9997491	7	8.5314601	6196	1.4685399	10
57	0	8.5318281	6180	9.9997484	7	8.5320797	6187	1.4679203	0	3
	10	8.5324461	6171	9.9997477	7	8.5326984	6178	1.4673016	50
	20	8.5330632	6162	9.9997470	7	8.5333162	6169	1.4666838	40
	30	8.5336794	6154	9.9997463	7	8.5339331	6161	1.4660669	30
	40	8.5342948	6144	9.9997456	8	8.5345492	6152	1.4654508	20
	50	8.5349092	6136	9.9997448	7	8.5351644	6143	1.4648356	10
58	0	8.5355228	6128	9.9997441	7	8.5357787	6135	1.4642213	0	2
	10	8.5361356	6118	9.9997434	7	8.5363922	6126	1.4636078	50
	20	8.5367474	6111	9.9997427	8	8.5370048	6117	1.4629952	40
	30	8.5373585	6101	9.9997419	7	8.5376165	6109	1.4623835	30
	40	8.5379686	6093	9.9997412	7	8.5382274	6100	1.4617726	20
	50	8.5385779	6084	9.9997405	7	8.5388374	6092	1.4611626	10
59	0	8.5391863	6076	9.9997398	8	8.5394466	6083	1.4605534	0	1
	10	8.5397939	6068	9.9997390	7	8.5400549	6075	1.4599451	50
	20	8.5404007	6059	9.9997383	7	8.5406624	6066	1.4593376	40
	30	8.5410066	6050	9.9997376	8	8.5412690	6058	1.4587310	30
	40	8.5416116	6042	9.9997368	7	8.5418748	6049	1.4581252	20
	50	8.5422158	6034	9.9997361	7	8.5424797	6041	1.4575203	10
60	0	8.5428192		9.9997354		8.5430838		1.4569162	0	0
′	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
0	0	8.5428192	6025	9.9997354	8	8.5430838	6033	1.4569162	0	60
	10	8.5434217	6017	9.9997346	7	8.5436871	6024	1.4563129	50	
	20	8.5440234	6008	9.9997339	8	8.5442895	6016	1.4557105	40	
	30	8.5446242	6001	9.9997331	7	8.5448911	6007	1.4551089	30	
	40	8.5452243	5991	9.9997324	7	8.5454918	6000	1.4545082	20	
	50	8.5458234	5984	9.9997317	8	8.5460918	5991	1.4539082	10	
1	0	8.5464218	5976	9.9997309	7	8.5466909	5983	1.4533091	0	59
	10	8.5470194	5967	9.9997302	8	8.5472892	5974	1.4527108	50	
	20	8.5476161	5959	9.9997294	7	8.5478866	5967	1.4521134	40	
	30	8.5482120	5951	9.9997287	7	8.5484833	5958	1.4515167	30	
	40	8.5488071	5942	9.9997280	8	8.5490791	5950	1.4509209	20	
	50	8.5494013	5935	9.9997272	7	8.5496741	5942	1.4503259	10	
2	0	8.5499948	5926	9.9997265	8	8.5502683	5934	1.4497317	0	58
	10	8.5505874	5919	9.9997257	7	8.5508617	5926	1.4491383	50	
	20	8.5511793	5910	9.9997250	8	8.5514543	5918	1.4485457	40	
	30	8.5517703	5902	9.9997242	7	8.5520461	5910	1.4479539	30	
	40	8.5523605	5894	9.9997235	8	8.5526371	5901	1.4473629	20	
	50	8.5529499	5887	9.9997227	7	8.5532272	5894	1.4467728	10	
3	0	8.5535386	5878	9.9997220	8	8.5538166	5886	1.4461834	0	57
	10	8.5541264	5870	9.9997212	8	8.5544052	5878	1.4455948	50	
	20	8.5547134	5863	9.9997204	7	8.5549930	5870	1.4450070	40	
	30	8.5552997	5854	9.9997197	8	8.5555800	5862	1.4444200	30	
	40	8.5558851	5847	9.9997189	7	8.5561662	5854	1.4438338	20	
	50	8.5564698	5838	9.9997182	8	8.5567516	5846	1.4432484	10	
4	0	8.5570536	5831	9.9997174	7	8.5573362	5839	1.4426638	0	56
	10	8.5576367	5823	9.9997167	8	8.5579201	5830	1.4420799	50	
	20	8.5582190	5815	9.9997159	8	8.5585031	5823	1.4414969	40	
	30	8.5588005	5808	9.9997151	7	8.5590854	5815	1.4409146	30	
	40	8.5593813	5799	9.9997144	8	8.5596669	5807	1.4403331	20	
	50	8.5599612	5792	9.9997136	8	8.5602476	5800	1.4397524	10	
5	0	8.5605404	5784	9.9997128	7	8.5608276	5792	1.4391724	0	55
	10	8.5611188	5777	9.9997121	8	8.5614068	5784	1.4385932	50	
	20	8.5616965	5769	9.9997113	8	8.5619852	5776	1.4380148	40	
	30	8.5622734	5761	9.9997105	7	8.5625628	5769	1.4374372	30	
	40	8.5628495	5753	9.9997098	8	8.5631397	5761	1.4368603	20	
	50	8.5634248	5746	9.9997090	8	8.5637158	5754	1.4362842	10	
6	0	8.5639994	5738	9.9997082	7	8.5642912	5746	1.4357088	0	54
	10	8.5645732	5731	9.9997075	8	8.5648658	5738	1.4351342	50	
	20	8.5651463	5723	9.9997067	8	8.5654396	5731	1.4345604	40	
	30	8.5657186	5716	9.9997059	8	8.5660127	5724	1.4339873	30	
	40	8.5662902	5708	9.9997051	7	8.5665851	5715	1.4334149	20	
	50	8.5668610	5700	9.9997044	8	8.5671566	5709	1.4328434	10	
7	0	8.5674310	5694	9.9997036	8	8.5677276	5701	1.4322726	0	53
	10	8.5680004	5685	9.9997028	8	8.5682976	5693	1.4317024	50	
	20	8.5685689	5678	9.9997020	8	8.5688669	5686	1.4311331	40	
	30	8.5691367	5671	9.9997012	7	8.5694355	5679	1.4305645	30	
	40	8.5697038	5663	9.9997005	8	8.5700034	5671	1.4299966	20	
	50	8.5702701	5656	9.9996997	8	8.5705705	5663	1.4294295	10	
8	0	8.5708357	5649	9.9996989	8	8.5711368	5657	1.4288632	0	52
	10	8.5714006	5641	9.9996981	8	8.5717025	5649	1.4282975	50	
	20	8.5719647	5634	9.9996973	8	8.5722674	5642	1.4277326	40	
	30	8.5725281	5627	9.9996965	8	8.5728316	5634	1.4271684	30	
	40	8.5730908	5619	9.9996957	7	8.5733950	5627	1.4266050	20	
	50	8.5736527	5612	9.9996950	8	8.5739577	5620	1.4260423	10	
9	0	8.5742139	5605	9.9996942	8	8.5745197	5613	1.4254803	0	51
	10	8.5747744	5577	9.9996934	8	8.5750810	5606	1.4249190	50	
	20	8.5753341	5591	9.9996926	8	8.5756416	5598	1.4243584	40	
	30	8.5758932	5583	9.9996918	8	8.5762014	5591	1.4237986	30	
	40	8.5764515	5576	9.9996910	8	8.5767605	5584	1.4232395	20	
	50	8.5770091	5569	9.9996902	8	8.5773189	5577	1.4226811	10	
10	0	8.5775660		9.9996894		8.5778766		1.4221234	0	50
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
10	0	8.5775660	5561	9.9996894	8	8.5778766	5569	1.4221234	0	50
	10	8.5781221	5555	9.9996886	8	8.5784335	5563	1.4215665	50	
	20	8.5786776	5547	9.9996878	8	8.5789898	5555	1.4210102	40	
	30	8.5792323	5541	9.9996870	8	8.5795453	5548	1.4204547	30	
	40	8.5797864	5533	9.9996862	8	8.5801001	5542	1.4198999	20	
	50	8.5803397	5526	9.9996854	8	8.5806543	5534	1.4193457	10	
11	0	8.5808923	5519	9.9996846	8	8.5812077	5527	1.4187923	0	49
	10	8.5814442	5512	9.9996838	8	8.5817604	5520	1.4182396	50	
	20	8.5819954	5506	9.9996830	8	8.5823124	5514	1.4176876	40	
	30	8.5825460	5498	9.9996822	8	8.5828638	5506	1.4171362	30	
	40	8.5830958	5491	9.9996814	8	8.5834144	5499	1.4165856	20	
	50	8.5836449	5484	9.9996806	8	8.5839643	5493	1.4160357	10	
12	0	8.5841933	5478	9.9996798	8	8.5845136	5485	1.4154864	0	48
	10	8.5847411	5470	9.9996790	8	8.5850621	5479	1.4149379	50	
	20	8.5852881	5464	9.9996782	8	8.5856100	5471	1.4143900	40	
	30	8.5858345	5456	9.9996773	9	8.5861571	5465	1.4138429	30	
	40	8.5863801	5450	9.9996765	8	8.5867036	5458	1.4132964	20	
	50	8.5869251	5443	9.9996757	8	8.5872494	5451	1.4127506	10	
13	0	8.5874694	5436	9.9996749	8	8.5877945	5444	1.4122055	0	47
	10	8.5880130	5430	9.9996741	8	8.5883389	5438	1.4116611	50	
	20	8.5885560	5422	9.9996733	8	8.5888827	5431	1.4111173	40	
	30	8.5890982	5416	9.9996724	9	8.5894258	5424	1.4105742	30	
	40	8.5896398	5409	9.9996716	8	8.5899682	5417	1.4100318	20	
	50	8.5901807	5402	9.9996708	8	8.5905099	5410	1.4094901	10	
14	0	8.5907209	5396	9.9996700	8	8.5910509	5404	1.4089491	0	46
	10	8.5912605	5389	9.9996692	8	8.5915913	5397	1.4084087	50	
	20	8.5917994	5382	9.9996683	9	8.5921310	5391	1.4078690	40	
	30	8.5923376	5375	9.9996675	8	8.5926701	5384	1.4073299	30	
	40	8.5928751	5369	9.9996667	8	8.5932085	5377	1.4067915	20	
	50	8.5934120	5363	9.9996659	8	8.5937462	5370	1.4062538	10	
15	0	8.5939483	5355	9.9996650	9	8.5942832	5364	1.4057168	0	45
	10	8.5944838	5349	9.9996642	8	8.5948196	5357	1.4051804	50	
	20	8.5950187	5343	9.9996634	8	8.5953553	5351	1.4046447	40	
	30	8.5955530	5335	9.9996626	8	8.5958904	5344	1.4041096	30	
	40	8.5960865	5330	9.9996617	9	8.5964248	5338	1.4035752	20	
	50	8.5966195	5322	9.9996609	8	8.5969586	5331	1.4030414	10	
16	0	8.5971517	5317	9.9996601	8	8.5974917	5324	1.4025083	0	44
	10	8.5976834	5309	9.9976592	9	8.5980241	5318	1.4019759	50	
	20	8.5982143	5303	9.9996584	8	8.5985559	5312	1.4014441	40	
	30	8.5987446	5297	9.9996576	8	8.5990871	5305	1.4009129	30	
	40	8.5992743	5290	9.9996567	9	8.5996176	5299	1.4003824	20	
	50	8.5998033	5284	9.9996559	8	8.6001475	5292	1.3998525	10	
17	0	8.6003317	5278	9.9996550	9	8.6006767	5286	1.3993233	0	43
	10	8.6008595	5271	9.9996542	8	8.6012053	5279	1.3987947	50	
	20	8.6013866	5264	9.9996534	8	8.6017332	5273	1.3982668	40	
	30	8.6019130	5258	9.9996525	9	8.6022605	5267	1.3977395	30	
	40	8.6024388	5252	9.9996517	8	8.6027872	5260	1.3972128	20	
	50	8.6029640	5246	9.9996508	8	8.6033132	5254	1.3966868	10	
18	0	8.6034886	5239	9.9996500	8	8.6038386	5247	1.3961614	0	42
	10	8.6040125	5232	9.9996491	9	8.6043633	5242	1.3956367	50	
	20	8.6045357	5227	9.9996483	8	8.6048875	5235	1.3951125	40	
	30	8.6050584	5220	9.9996474	9	8.6054110	5228	1.3945890	30	
	40	8.6055804	5214	9.9996466	8	8.6059338	5223	1.3940662	20	
	50	8.6061018	5208	9.9996457	9	8.6064561	5216	1.3935439	10	
19	0	8.6066226	5201	9.9996449	8	8.6069777	5210	1.3930223	0	41
	10	8.6071427	5195	9.9996440	9	8.6074987	5203	1.3925013	50	
	20	8.6076622	5189	9.9996432	8	8.6080190	5198	1.3919810	40	
	30	8.6081811	5183	9.9996423	9	8.6085388	5191	1.3914612	30	
	40	8.6086994	5177	9.9996415	8	8.6090579	5185	1.3909421	20	
	50	8.6092171	5170	9.9996406	9	8.6095764	5179	1.3904236	10	
20	0	8.6097341		9.9996398	8	8.6100943		1.3899057	0	40
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
20	0	8.6097341	5164	9.9996398		8.6100943	5173	1.3899057	0	40
	10	8.6102505	5158	9.9996389	9	8.6106116	5167	1.3893884	50	
	20	8.6107663	5152	9.9996380	9	8.6111283	5160	1.3888717	40	
	30	8.6112815	5146	9.9996372	8	8.6116443	5155	1.3883557	30	
	40	8.6117961	5140	9.9996363	9	8.6121598	5148	1.3878402	20	
	50	8.6123101	5134	9.9996355	8	8.6126746	5143	1.3873254	10	
21	0	8.6128235	5127	9.9996346	9	8.6131889	5136	1.3868111	0	39
	10	8.6133362	5122	9.9996337	9	8.6137025	5130	1.3862975	50	
	20	8.6138484	5115	9.9996329	8	8.6142155	5124	1.3857845	40	
	30	8.6143599	5110	9.9996320	9	8.6147279	5118	1.3852721	30	
	40	8.6148709	5103	9.9996311	9	8.6152397	5112	1.3847603	20	
	50	8.6153812	5098	9.9996303	8	8.6157509	5107	1.3842491	10	
22	0	8.6158910	5091	9.9996294	9	8.6162616	5100	1.3837384	0	38
	10	8.6164001	5086	9.9996285	9	8.6167716	5094	1.3832284	50	
	20	8.6169087	5079	9.9996277	8	8.6172810	5088	1.3827190	40	
	30	8.6174166	5074	9.9996268	9	8.6177898	5083	1.3822102	30	
	40	8.6179240	5067	9.9996259	9	8.6182981	5076	1.3817019	20	
	50	8.6184307	5062	9.9996250	9	8.6188057	5070	1.3811943	10	
23	0	8.6189369	5056	9.9996242	8	8.6193127	5065	1.3806873	0	37
	10	8.6194425	5050	9.9996233	9	8.6198192	5059	1.3801808	50	
	20	8.6199475	5044	9.9996224	9	8.6203251	5053	1.3796749	40	
	30	8.6204519	5038	9.9996215	9	8.6208304	5047	1.3791696	30	
	40	8.6209557	5032	9.9996206	9	8.6213351	5041	1.3786649	20	
	50	8.6214589	5027	9.9996198	8	8.6218392	5035	1.3781608	10	
24	0	8.6219616	5021	9.9996189	9	8.6223427	5030	1.3776573	0	36
	10	8.6224637	5015	9.9996180	9	8.6228457	5023	1.3771543	50	
	20	8.6229652	5009	9.9996171	9	8.6233480	5018	1.3766520	40	
	30	8.6234661	5003	9.9996162	9	8.6238498	5013	1.3761502	30	
	40	8.6239664	4998	9.9996153	9	8.6243511	5006	1.3756489	20	
	50	8.6244662	4991	9.9996145	8	8.6248517	5001	1.3751483	10	
25	0	8.6249653	4986	9.9996136	9	8.6253518	4995	1.3746482	0	35
	10	8.6254639	4981	9.9996127	9	8.6258513	4989	1.3741487	50	
	20	8.6259620	4974	9.9996118	9	8.6263502	4983	1.3736498	40	
	30	8.6264594	4969	9.9996109	9	8.6268485	4978	1.3731515	30	
	40	8.6269563	4964	9.9996100	9	8.6273463	4972	1.3726537	20	
	50	8.6274527	4957	9.9996091	9	8.6278435	4967	1.3721565	10	
26	0	8.6279484	4952	9.9996082	9	8.6283402	4961	1.3716598	0	34
	10	8.6284436	4946	9.9996073	9	8.6288363	4955	1.3711637	50	
	20	8.6289382	4941	9.9996064	9	8.6293318	4950	1.3706682	40	
	30	8.6294323	4935	9.9996055	9	8.6298268	4943	1.3701732	30	
	40	8.6299258	4929	9.9996046	9	8.6303211	4939	1.3696789	20	
	50	8.6304187	4924	9.9996037	9	8.6308150	4933	1.3691850	10	
27	0	8.6309111	4918	9.9996028	9	8.6313083	4927	1.3686917	0	33
	10	8.6314029	4913	9.9996019	9	8.6318010	4921	1.3681990	50	
	20	8.6318942	4907	9.9996010	9	8.6322931	4917	1.3677059	40	
	30	8.6323849	4901	9.9996001	9	8.6327848	4910	1.3672152	30	
	40	8.6328750	4896	9.9995992	9	8.6332758	4905	1.3667242	20	
	50	8.6333646	4891	9.9995983	9	8.6337663	4900	1.3662337	10	
28	0	8.6338537	4885	9.9995974	9	8.6342563	4894	1.3657437	0	32
	10	8.6343422	4879	9.9995965	9	8.6347457	4888	1.3652543	50	
	20	8.6348301	4874	9.9995956	9	8.6352345	4883	1.3647655	40	
	30	8.6353175	4868	9.9995947	9	8.6357228	4878	1.3642772	30	
	40	8.6358043	4863	9.9995938	9	8.6362106	4872	1.3637894	20	
	50	8.6362906	4858	9.9995929	9	8.6366978	4867	1.3633022	10	
29	0	8.6367764	4852	9.9995919	10	8.6371845	4861	1.3628155	0	31
	10	8.6372616	4847	9.9995910	9	8.6376706	4856	1.3623294	50	
	20	8.6377463	4841	9.9995901	9	8.6381562	4850	1.3618438	40	
	30	8.6382304	4836	9.9995892	9	8.6386412	4845	1.3613588	30	
	40	8.6387140	4831	9.9995883	9	8.6391257	4840	1.3608743	20	
	50	8.6391971	4825	9.9995874	9	8.6396097	4834	1.3603903	10	
30	0	8.6396796		9.9995865	9	8.6400931		1.3599069	0	30
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
30	0	8.6396796	4819	9.9995865	10	8.6400931	4849	1.3599069	0	30
	10	8.6401615	4815	9.9995855	9	8.6405760	4824	1.3594240	50	
	20	8.6406430	4809	9.9995846	9	8.6410584	4818	1.3589416	40	
	30	8.6411239	4804	9.9995837	9	8.6415402	4813	1.3584598	30	
	40	8.6416043	4798	9.9995828	10	8.6420215	4808	1.3579785	20	
	50	8.6420841	4793	9.9995818	9	8.6425023	4802	1.3574977	10	
31	0	8.6425634	4788	9.9995809	9	8.6429826	4797	1.3570175	0	29
	10	8.6430422	4782	9.9995800	9	8.6434622	4792	1.3565378	50	
	20	8.6435204	4778	9.9995791	10	8.6439414	4786	1.3560586	40	
	30	8.6439982	4772	9.9995781	9	8.6444200	4782	1.3555800	30	
	40	8.6444754	4766	9.9995772	9	8.6448982	4776	1.3551018	20	
	50	8.6449520	4762	9.9995763	10	8.6453758	4770	1.3546242	10	
32	0	8.6454282	4756	9.9995753	9	8.6458528	4766	1.3541472	0	28
	10	8.6459038	4751	9.9995744	9	8.6463294	4760	1.3536706	50	
	20	8.6463789	4746	9.9995735	10	8.6468054	4756	1.3531946	40	
	30	8.6468535	4741	9.9995725	9	8.6472810	4750	1.3527190	30	
	40	8.6473276	4735	9.9995716	9	8.6477560	4745	1.3522440	20	
	50	8.6478011	4731	9.9995707	10	8.6482305	4739	1.3517695	10	
33	0	8.6482742	4725	9.9995697	9	8.6487044	4735	1.3512956	0	27
	10	8.6487467	4720	9.9995688	9	8.6491779	4729	1.3508221	50	
	20	8.6492187	4715	9.9995679	10	8.6496508	4725	1.3503492	40	
	30	8.6496902	4710	9.9995669	9	8.6501233	4719	1.3498767	30	
	40	8.6501612	4704	9.9995660	10	8.6505952	4714	1.3494048	20	
	50	8.6506316	4700	9.9995650	9	8.6510666	4709	1.3489334	10	
34	0	8.6511016	4694	9.9995641	10	8.6515375	4704	1.3484625	0	26
	10	8.6515710	4690	9.9995631	9	8.6520079	4699	1.3479921	50	
	20	8.6520400	4684	9.9995622	9	8.6524778	4693	1.3475222	40	
	30	8.6525084	4679	9.9995613	10	8.6529471	4689	1.3470529	30	
	40	8.6529763	4674	9.9995603	9	8.6534160	4684	1.3465840	20	
	50	8.6534437	4670	9.9995594	10	8.6538844	4678	1.3461156	10	
35	0	8.6539107	4664	9.9995584	9	8.6543522	4674	1.3456478	0	25
	10	8.6543771	4659	9.9995575	10	8.6548196	4669	1.3451804	50	
	20	8.6548430	4654	9.9995565	9	8.6552865	4663	1.3447135	40	
	30	8.6553084	4649	9.9995556	10	8.6557528	4659	1.3442472	30	
	40	8.6557733	4644	9.9995546	10	8.6562187	4654	1.3437813	20	
	50	8.6562377	4640	9.9995536	9	8.6566841	4649	1.3433159	10	
36	0	8.6567017	4634	9.9995527	10	8.6571490	4643	1.3428510	0	24
	10	8.6571651	4629	9.9995517	9	8.6576133	4639	1.3423867	50	
	20	8.6576280	4624	9.9995508	10	8.6580772	4634	1.3419228	40	
	30	8.6580904	4620	9.9995498	9	8.6585406	4629	1.3414594	30	
	40	8.6585524	4614	9.9995489	10	8.6590035	4624	1.3409965	20	
	50	8.6590138	4610	9.9995479	10	8.6594659	4620	1.3405341	10	
37	0	8.6594748	4605	9.9995469	9	8.6599279	4614	1.3400721	0	23
	10	8.6599353	4599	9.9995460	10	8.6603893	4609	1.3396107	50	
	20	8.6603952	4595	9.9995450	10	8.6608502	4605	1.3391498	40	
	30	8.6608547	4590	9.9995440	9	8.6613107	4600	1.3386893	30	
	40	8.6613137	4586	9.9995431	10	8.6617707	4594	1.3382293	20	
	50	8.6617723	4580	9.9995421	10	8.6622301	4590	1.3377699	10	
38	0	8.6622303	4575	9.9995411	10	8.6626891	4586	1.3373109	0	22
	10	8.6626878	4571	9.9995402	9	8.6631477	4580	1.3368523	50	
	20	8.6631449	4566	9.9995392	10	8.6636057	4576	1.3363943	40	
	30	8.6636015	4561	9.9995382	10	8.6640633	4570	1.3359367	30	
	40	8.6640576	4556	9.9995373	9	8.6645203	4567	1.3354797	20	
	50	8.6645132	4552	9.9995363	10	8.6649770	4561	1.3350230	10	
39	0	8.6649684	4547	9.9995353	10	8.6654331	4556	1.3345669	0	21
	10	8.6654231	4542	9.9995343	9	8.6658887	4552	1.3341113	50	
	20	8.6658773	4537	9.9995334	10	8.6663439	4547	1.3336561	40	
	30	8.6663310	4532	9.9995324	10	8.6667986	4542	1.3332014	30	
	40	8.6667842	4528	9.9995314	10	8.6672528	4538	1.3327472	20	
	50	8.6672370	4523	9.9995304	9	8.6677066	4532	1.3322934	10	
40	0	8.6676893		9.9995295		8.6681598		1.3318402	0	20
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
40	0	8.6676893	4518	9.9995295	10	8.6681598	4529	1.3318402	0	20
	10	8.6681411	4514	9.9995285	10	8.6686127	4523	1.3313873	50	
	20	8.6685925	4509	9.9995275	10	8.6690650	4519	1.3309350	40	
	30	8.6690434	4504	9.9995265	10	8.6695169	4514	1.3304831	30	
	40	8.6694938	4499	9.9995255	10	8.6699683	4509	1.3300317	20	
	50	8.6699437	4495	9.9995245	9	8.6704192	4505	1.3295808	10	
41	0	8.6703932	4490	9.9995236	10	8.6708697	4500	1.3291303	0	19
	10	8.6708422	4486	9.9995226	10	8.6713197	4495	1.3286803	50	
	20	8.6712908	4481	9.9995216	10	8.6717692	4491	1.3282308	40	
	30	8.6717389	4476	9.9995206	10	8.6722183	4486	1.3277817	30	
	40	8.6721865	4472	9.9995196	10	8.6726669	4482	1.3273331	20	
	50	8.6726337	4467	9.9995186	10	8.6731151	4477	1.3268849	10	
42	0	8.6730804	4462	9.9995176	10	8.6735628	4472	1.3264372	0	18
	10	8.6735266	4458	9.9995166	10	8.6740100	4468	1.3259900	50	
	20	8.6739724	4453	9.9995156	10	8.6744568	4463	1.3255432	40	
	30	8.6744177	4449	9.9995146	10	8.6749031	4459	1.3250969	30	
	40	8.6748626	4444	9.9995136	10	8.6753490	4454	1.3246510	20	
	50	8.6753070	4440	9.9995126	10	8.6757944	4449	1.3242056	10	
43	0	8.6757510	4435	9.9995116	10	8.6762393	4446	1.3237607	0	17
	10	8.6761945	4430	9.9995106	10	8.6766839	4440	1.3233161	50	
	20	8.6766375	4426	9.9995096	10	8.6771279	4436	1.3228721	40	
	30	8.6770801	4422	9.9995086	10	8.6775715	4432	1.3224285	30	
	40	8.6775223	4417	9.9995076	10	8.6780147	4426	1.3219853	20	
	50	8.6779640	4412	9.9995066	10	8.6784573	4423	1.3215427	10	
44	0	8.6784052	4408	9.9995056	10	8.6788996	4418	1.3211004	0	16
	10	8.6788460	4404	9.9995046	10	8.6793414	4414	1.3206586	50	
	20	8.6792864	4399	9.9995036	10	8.6797828	4409	1.3202172	40	
	30	8.6797263	4394	9.9995026	10	8.6802237	4404	1.3197763	30	
	40	8.6801657	4390	9.9995016	10	8.6806641	4401	1.3193359	20	
	50	8.6806047	4386	9.9995006	10	8.6811042	4395	1.3188958	10	
45	0	8.6810433	4381	9.9994996	10	8.6815437	4392	1.3184563	0	15
	10	8.6814814	4377	9.9994986	11	8.6819829	4387	1.3180171	50	
	20	8.6819191	4372	9.9994975	10	8.6824216	4384	1.3175784	40	
	30	8.6823563	4378	9.9994965	10	8.6828598	4378	1.3171402	30	
	40	8.6827931	4364	9.9994955	10	8.6832976	4374	1.3167024	20	
	50	8.6832295	4359	9.9994945	10	8.6837350	4369	1.3162650	10	
46	0	8.6836654	4355	9.9994935	10	8.6841719	4365	1.3158281	0	14
	10	8.6841009	4350	9.9994925	11	8.6846084	4361	1.3153916	50	
	20	8.6845359	4347	9.9994914	10	8.6850445	4356	1.3149555	40	
	30	8.6849706	4341	9.9994904	10	8.6854801	4352	1.3145199	30	
	40	8.6854047	4338	9.9994894	10	8.6859153	4348	1.3140847	20	
	50	8.6858385	4333	9.9994884	10	8.6863501	4343	1.3136499	10	
47	0	8.6862718	4328	9.9994874	11	8.6867844	4339	1.3132156	0	13
	10	8.6867046	4325	9.9994863	10	8.6872183	4335	1.3127817	50	
	20	8.6871371	4320	9.9994853	10	8.6876518	4330	1.3123482	40	
	30	8.6875691	4316	9.9994843	10	8.6880848	4326	1.3119152	30	
	40	8.6880007	4311	9.9994833	11	8.6885174	4322	1.3114826	20	
	50	8.6884318	4307	9.9994822	10	8.6889496	4317	1.3110504	10	
48	0	8.6888625	4303	9.9994812	10	8.6893813	4313	1.3106187	0	12
	10	8.6892928	4299	9.9994802	11	8.6898126	4309	1.3101874	50	
	20	8.6897227	4294	9.9994791	10	8.6902435	4305	1.3097565	40	
	30	8.6901521	4290	9.9994781	10	8.6906740	4301	1.3093260	30	
	40	8.6905811	4286	9.9994771	11	8.6911041	4296	1.3088959	20	
	50	8.6910097	4282	9.9994760	10	8.6915337	4292	1.3084663	10	
49	0	8.6914379	4277	9.9994750	10	8.6919629	4288	1.3080371	0	11
	10	8.6918656	4273	9.9994740	11	8.6923917	4283	1.3076083	50	
	20	8.6922929	4269	9.9994729	10	8.6928200	4279	1.3071800	40	
	30	8.6927198	4265	9.9994719	10	8.6932479	4276	1.3067521	30	
	40	8.6931463	4261	9.9994709	10	8.6936755	4271	1.3063245	20	
	50	8.6935724	4256	9.9994698	10	8.6941026	4266	1.3058974	10	
50	0	8.6939980		9.9994688		8.6945292		1.3054708	0	10
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	″	′
50	0	8.6939980	4252	9.9994688	11	8.6945292	4263	1.3054708	0	10
	10	8.6944232	4248	9.9994677	10	8.6949555	4259	1.3050445	50	
	20	8.6948480	4244	9.9994667	11	8.6953814	4254	1.3046186	40	
	30	8.6952724	4240	9.9994656	10	8.6958068	4250	1.3041932	30	
	40	8.6956964	4236	9.9994646	11	8.6962318	4246	1.3037682	20	
	50	8.6961200	4231	9.9994635	10	8.6966564	4242	1.3033436	10	
51	0	8.6965431	4228	9.9994625	10	8.6970806	4238	1.3029194	0	9
	10	8.6969659	4223	9.9994615	11	8.6975044	4234	1.3024956	50	
	20	8.6973882	4219	9.9994604	10	8.6979278	4229	1.3020722	40	
	30	8.6978101	4215	9.9994594	11	8.6983507	4226	1.3016493	30	
	40	8.6982316	4211	9.9994583	11	8.6987733	4221	1.3012267	20	
	50	8.6986527	4207	9.9994572	10	8.6991954	4218	1.3008046	10	
52	0	8.6990734	4202	9.9994562	11	8.6996172	4213	1.3003828	0	8
	10	8.6994936	4199	9.9994551	10	8.7000385	4209	1.2999615	50	
	20	8.6999135	4195	9.9994541	11	8.7004594	4205	1.2995406	40	
	30	8.7003330	4190	9.9994530	10	8.7008799	4201	1.2991201	30	
	40	8.7007520	4187	9.9994520	11	8.7013000	4197	1.2987000	20	
	50	8.7011707	4182	9.9994509	11	8.7017197	4193	1.2982803	10	
53	0	8.7015889	4178	9.9994498	10	8.7021390	4190	1.2978610	0	7
	10	8.7020067	4175	9.9994488	11	8.7025580	4185	1.2974420	50	
	20	8.7024242	4170	9.9994477	10	8.7029765	4181	1.2970235	40	
	30	8.7028412	4166	9.9994467	11	8.7033946	4176	1.2966054	30	
	40	8.7032578	4163	9.9994456	11	8.7038122	4173	1.2961878	20	
	50	8.7036741	4158	9.9994445	10	8.7042295	4170	1.2957705	10	
54	0	8.7040899	4155	9.9994435	11	8.7046465	4165	1.2953535	0	6
	10	8.7045054	4150	9.9994424	11	8.7050630	4161	1.2949370	50	
	20	8.7049204	4146	9.9994413	10	8.7054791	4157	1.2945209	40	
	30	8.7053350	4143	9.9994403	11	8.7058948	4153	1.2941052	30	
	40	8.7057493	4138	9.9994392	11	8.7063101	4149	1.2936899	20	
	50	8.7061631	4135	9.9994381	11	8.7067250	4145	1.2932750	10	
55	0	8.7065766	4130	9.9994370	10	8.7071395	4142	1.2928605	0	5
	10	8.7069896	4127	9.9994360	11	8.7075537	4137	1.2924463	50	
	20	8.7074023	4123	9.9994349	11	8.7079674	4134	1.2920326	40	
	30	8.7078146	4119	9.9994338	10	8.7083808	4129	1.2916192	30	
	40	8.7082265	4115	9.9994328	11	8.7087937	4126	1.2912063	20	
	50	8.7086380	4110	9.9994317	11	8.7092063	4122	1.2907937	10	
56	0	8.7090490	4108	9.9994306	11	8.7096185	4117	1.2903815	0	4
	10	8.7094598	4103	9.9994295	11	8.7100302	4114	1.2899698	50	
	20	8.7098701	4099	9.9994284	10	8.7104416	4111	1.2895584	40	
	30	8.7102800	4096	9.9994274	11	8.7108527	4106	1.2891473	30	
	40	8.7106896	4091	9.9994263	11	8.7112633	4102	1.2887367	20	
	50	8.7110987	4088	9.9994252	11	8.7116735	4099	1.2883265	10	
57	0	8.7115075	4084	9.9994241	11	8.7120834	4095	1.2879166	0	3
	10	8.7119159	4080	9.9994230	11	8.7124929	4090	1.2875071	50	
	20	8.7123239	4076	9.9994219	11	8.7129019	4087	1.2870981	40	
	30	8.7127315	4072	9.9994208	10	8.7133106	4084	1.2866894	30	
	40	8.7131387	4069	9.9994198	11	8.7137190	4079	1.2862810	20	
	50	8.7135456	4064	9.9994187	11	8.7141269	4076	1.2858731	10	
58	0	8.7139520	4061	9.9994176	11	8.7145345	4072	1.2854655	0	2
	10	8.7143581	4057	9.9994165	11	8.7149417	4068	1.2850583	50	
	20	8.7147638	4054	9.9994154	11	8.7153485	4064	1.2846515	40	
	30	8.7151692	4049	9.9994143	11	8.7157549	4060	1.2842451	30	
	40	8.7155741	4046	9.9994132	11	8.7161609	4057	1.2838391	20	
	50	8.7159787	4042	9.9994121	11	8.7165666	4053	1.2834334	10	
59	0	8.7163829	4038	9.9994110	11	8.7169719	4049	1.2830281	0	1
	10	8.7167867	4034	9.9994099	11	8.7173768	4045	1.2826232	50	
	20	8.7171901	4031	9.9994088	11	8.7177813	4042	1.2822187	40	
	30	8.7175932	4027	9.9994077	11	8.7181855	4038	1.2818145	30	
	40	8.7179959	4023	9.9994066	11	8.7185893	4034	1.2814107	20	
	50	8.7183982	4020	9.9994055	11	8.7189927	4031	1.2810073	10	
60	0	8.7188002		9.9994044		8.7193958		1.2806042	0	0
′	′	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	8.7188002	4015	9.9994044	11	8.7193958	4026	1.2806042	0	60
	30	8.7200038	4004	9.9994011	11	8.7206027	4015	1.2793973	30	
1	0	8.7212040	3994	9.9993978	11	8.7218063	4004	1.2781937	0	59
	30	8.7224010	3982	9.9993944	11	8.7230065	3994	1.2769935	30	
2	0	8.7235946	3972	9.9993911	11	8.7242035	3983	1.2757965	0	58
	30	8.7247850	3960	9.9993877	11	8.7253972	3972	1.2746028	30	
3	0	8.7259721	3950	9.9993844	11	8.7265877	3961	1.2734123	0	57
	30	8.7271559	3939	9.9993810	11	8.7277749	3951	1.2722251	30	
4	0	8.7283366	3928	9.9993776	11	8.7289589	3940	1.2710411	0	56
	30	8.7295140	3917	9.9993742	11	8.7301397	3929	1.2698603	30	
5	0	8.7306882	3907	9.9993708	11	8.7313174	3918	1.2686826	0	55
	30	8.7318593	3896	9.9993674	11	8.7324918	3908	1.2675082	30	
6	0	8.7330272	3885	9.9993640	11	8.7336631	3898	1.2663369	0	54
	30	8.7341919	3876	9.9993606	12	8.7348313	3887	1.2651687	30	
7	0	8.7353535	3865	9.9993572	12	8.7359964	3876	1.2640036	0	53
	30	8.7365120	3855	9.9993537	11	8.7371583	3867	1.2628417	30	
8	0	8.7376675	3844	9.9993503	12	8.7383172	3856	1.2616828	0	52
	30	8.7388198	3835	9.9993468	12	8.7394730	3846	1.2605270	30	
9	0	8.7399691	3824	9.9993433	11	8.7406258	3836	1.2593742	0	51
	30	8.7411154	3814	9.9993398	11	8.7417755	3826	1.2582245	30	
10	0	8.7422586	3804	9.9993364	12	8.7429222	3816	1.2570778	0	50
	30	8.7433988	3794	9.9993329	12	8.7440660	3805	1.2559340	30	
11	0	8.7445360	3784	9.9993293	11	8.7452067	3796	1.2547933	0	49
	30	8.7456703	3774	9.9993258	11	8.7463444	3786	1.2536556	30	
12	0	8.7468015	3765	9.9993223	12	8.7474792	3777	1.2525208	0	48
	30	8.7479299	3754	9.9993188	12	8.7486111	3766	1.2513889	30	
13	0	8.7490553	3744	9.9993152	12	8.7497400	3757	1.2502600	0	47
	30	8.7501777	3736	9.9993117	12	8.7508661	3747	1.2491339	30	
14	0	8.7512973	3726	9.9993081	12	8.7519892	3737	1.2480108	0	46
	30	8.7524140	3716	9.9993045	12	8.7531095	3728	1.2468905	30	
15	0	8.7535278	3706	9.9993009	11	9.7542269	3718	1.2457731	0	45
	30	8.7546388	3697	9.9992974	12	8.7553414	3709	1.2446586	30	
16	0	8.7557469	3687	9.9992938	12	8.7564531	3700	1.2435469	0	44
	30	8.7568522	3678	9.9992901	12	8.7575620	3690	1.2424380	30	
17	0	8.7579546	3669	9.9992865	12	8.7586681	3681	1.2413319	0	43
	30	8.7590543	3659	9.9992829	12	8.7597714	3671	1.2402286	30	
18	0	8.7601512	3650	9.9992793	13	8.7608719	3662	1.2391281	0	42
	30	8.7612453	3641	9.9992756	12	8.7619697	3653	1.2380303	30	
19	0	8.7623366	3632	9.9992720	13	8.7630647	3644	1.2369353	0	41
	30	8.7634252	3623	9.9992683	12	8.7641569	3635	1.2358431	30	
20	0	8.7645111	3613	9.9992646	12	8.7652465	3626	1.2347535	0	40
	30	8.7655943	3604	9.9992609	12	8.7663333	3617	1.2336667	30	
21	0	8.7666747	3596	9.9992572	12	8.7674175	3607	1.2325825	0	39
	30	8.7677525	3586	9.9992535	12	8.7684989	3599	1.2315011	30	
22	0	8.7688275	3578	9.9992498	12	8.7695777	3590	1.2304223	0	38
	30	8.7699000	3568	9.9992461	12	8.7706539	3581	1.2293461	30	
23	0	8.7709697	3560	9.9992424	13	8.7717274	3572	1.2282726	0	37
	30	8.7720369	3551	9.9992386	12	8.7727982	3564	1.2272018	30	
24	0	8.7731014	3542	9.9992349	13	8.7738665	3555	1.2261335	0	36
	30	8.7741633	3533	9.9992311	12	8.7749321	3547	1.2250679	30	
25	0	8.7752226	3525	9.9992274	13	8.7759952	3538	1.2240048	0	35
	30	8.7762793	3516	9.9992236	13	8.7770557	3529	1.2229443	30	
26	0	8.7773334	3508	9.9992198	13	8.7781136	3521	1.2218864	0	34
	30	8.7783850	3499	9.9992160	13	8.7791690	3512	1.2208310	30	
27	0	8.7794340	3491	9.9992122	13	8.7802218	3504	1.2197782	0	33
	30	8.7804805	3482	9.9992084	13	8.7812721	3495	1.2187279	30	
28	0	8.7815244	3475	9.9992046	13	8.7823199	3487	1.2176801	0	32
	30	8.7825659	3466	9.9992007	12	8.7833651	3479	1.2166349	30	
29	0	8.7836048	3458	9.9991969	13	8.7844079	3471	1.2155921	0	31
	30	8.7846413	3449	9.9991931	13	8.7854482	3463	1.2145518	30	
30	0	8.7856753		9.9991892		8.7864861		1.2135139	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	8.7856753	3441	9.9991892	13	8.7864861	3454	1.2135139	0	30
	30	8.7867068	3433	9.9991853	13	8.7875215	3446	1.2124785	30	
31	0	8.7877359	3424	9.9991815	13	8.7885544	3438	1.2114456	0	29
	30	8.7887625	3416	9.9991776	13	8.7895849	3430	1.2104151	30	
32	0	8.7897867	3408	9.9991737	13	8.7906130	3422	1.2093870	0	28
	30	8.7908084	3401	9.9991698	13	8.7916387	3413	1.2083613	30	
33	0	8.7918278	3393	9.9991659	14	8.7926620	3405	1.2073380	0	27
	30	8.7928448	3384	9.9991619	13	8.7936829	3397	1.2063171	30	
34	0	8.7938594	3375	9.9991580	13	8.7947014	3390	1.2052986	0	26
	30	8.7948716	3369	9.9991541	14	8.7957176	3382	1.2042825	30	
35	0	8.7958814	3361	9.9991501	13	8.7967313	3374	1.2032687	0	25
	30	8.7968889	3353	9.9991461	13	8.7977428	3366	1.2022572	30	
36	0	8.7978941	3345	9.9991422	14	8.7987519	3359	1.2012481	0	24
	30	8.7988969	3338	9.9991382	13	8.7997587	3351	1.2002413	30	
37	0	8.7998974	3330	9.9991342	13	8.7007632	3343	1.1992368	0	23
	30	8.8008956	3322	9.9991302	13	8.8017654	3335	1.1982346	30	
38	0	8.8018915	3315	9.9991262	13	8.8027653	3328	1.1972347	0	22
	30	8.8028851	3307	9.9991222	14	8.8037629	3321	1.1962371	30	
39	0	8.8038764	3300	9.9991182	14	8.8047583	3313	1.1952417	0	21
	30	8.8048655	3292	9.9991141	13	8.8057514	3305	1.1942486	30	
40	0	8.8058523	3285	9.9991101	14	8.8067422	3298	1.1932578	0	20
	30	8.8068369	3277	9.9991060	13	8.8077309	3290	1.1922691	30	
41	0	8.8078192	3270	9.9991020	14	8.8087172	3283	1.1912828	0	19
	30	8.8087993	3262	9.9990979	14	8.8097014	3276	1.1902986	30	
42	0	8.8097772	3255	9.9990938	13	8.8106834	3268	1.1893166	0	18
	30	8.8107529	3247	9.9990897	13	8.8116631	3262	1.1883369	30	
43	0	8.8117264	3240	9.9990856	14	8.8126407	3254	1.1873593	0	17
	30	8.8126977	3232	9.9990815	13	8.8136161	3247	1.1863839	30	
44	0	8.8136668	3225	9.9990774	14	8.8145894	3239	1.1854106	0	16
	30	8.8146337	3219	9.9990733	14	8.8155605	3232	1.1844395	30	
45	0	8.8155985	3211	9.9990691	13	8.8165294	3225	1.1834706	0	15
	30	8.8165612	3204	9.9990650	14	8.8174962	3218	1.1825038	30	
46	0	8.8175217	3197	9.9990608	13	8.8184608	3211	1.1815392	0	14
	30	8.8184801	3190	9.9990567	14	8.8194234	3204	1.1805766	30	
47	0	8.8194363	3183	9.9990525	14	8.8203838	3197	1.1796162	0	13
	30	8.8203905	3176	9.9990483	14	8.8213422	3189	1.1786578	30	
48	0	8.8213425	3169	9.9990441	14	8.8222984	3183	1.1777016	0	12
	30	8.8222925	3162	9.9990399	14	8.8232526	3175	1.1767474	30	
49	0	8.8232404	3155	9.9990357	14	8.8242046	3169	1.1757954	0	11
	30	8.8241862	3148	9.9990315	14	8.8251547	3162	1.1748453	30	
50	0	8.8251299	3141	9.9990273	14	8.8261026	3156	1.1738974	0	10
	30	8.8260716	3134	9.9990230	14	8.8270485	3149	1.1729515	30	
51	0	8.8270112	3128	9.9990188	14	8.8279924	3142	1.1720076	0	9
	30	8.8279488	3121	9.9990145	14	8.8289343	3135	1.1710657	30	
52	0	8.8288844	3114	9.9990103	15	8.8298741	3128	1.1701259	0	8
	30	8.8298179	3108	9.9990060	14	8.8308119	3122	1.1691881	30	
53	0	8.8307495	3101	9.9990017	14	8.8317478	3115	1.1682522	0	7
	30	8.8316790	3094	9.9989974	14	8.8326816	3108	1.1673184	30	
54	0	8.8326066	3087	9.9989931	14	8.8336134	3102	1.1663866	0	6
	30	8.8335321	3081	9.9989888	14	8.8345433	3095	1.1654567	30	
55	0	8.8344557	3074	9.9989845	14	8.8354712	3089	1.1645288	0	5
	30	8.8353773	3068	9.9989802	15	8.8363971	3082	1.1636029	30	
56	0	8.8362969	3062	9.9989758	14	8.8373211	3076	1.1626789	0	4
	30	8.8372146	3055	9.9989715	15	8.8382432	3069	1.1617568	30	
57	0	8.8381304	3048	9.9989671	14	8.8391633	3062	1.1608367	0	3
	30	8.8390442	3042	9.9989628	15	8.8400814	3057	1.1599186	30	
58	0	8.8399561	3035	9.9989584	15	8.8409977	3050	1.1590023	0	2
	30	8.8408661	3029	9.9989540	15	8.8419121	3043	1.1580879	30	
59	0	8.8417741	3023	9.9989496	15	8.8428245	3037	1.1571755	0	1
	30	8.8426803	3016	9.9989452	15	8.8437351	3031	1.1562649	30	
60	0	8.8435845		9.9989408		8.8446437		1.1553563	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	8.8435845	3010	9.9989408	15	8.8446437	3025	1.1553563	c	60
	30	8.8444869	3004	9.9989364	15	8.8455605	3019	1.1544495	3c	
1	0	8.8453874	2997	9.9989319	14	8.8464554	3013	1.1535446	c	59
	30	8.8462860	2991	9.9989275	15	8.8473485	3006	1.1526415	3c	
2	0	8.8471827	2985	9.9989230	14	8.8482397	3000	1.1517403	c	58
	30	8.8480776	2979	9.9989186	15	8.8491290	2994	1.1508410	3c	
3	0	8.8487707	2972	9.9989141	15	8.8500166	2987	1.1499434	c	57
	30	8.8498619	2966	9.9989096	14	8.8509022	2982	1.1490478	3c	
4	0	8.8507512	2961	9.9989052	15	8.8518861	2975	1.1481539	c	56
	30	8.8516388	2954	9.9989007	15	8.8527381	2970	1.1472619	3c	
5	0	8.8525245	2948	9.9988962	15	8.8536283	2964	1.1463717	c	55
	30	8.8534084	2942	9.9988916	15	8.8545168	2957	1.1454832	3c	
6	0	8.8542905	2937	9.9988871	15	8.8554034	2951	1.1445966	c	54
	30	8.8551708	2931	9.9988826	15	8.8562882	2946	1.1437118	3c	
7	0	8.8560493	2925	9.9988780	15	8.8571713	2940	1.1428287	c	53
	30	8.8569261	2918	9.9988735	15	8.8580526	2934	1.1419474	3c	
8	0	8.8578010	2913	9.9988689	15	8.8589321	2928	1.1410679	c	52
	30	8.8586742	2907	9.9988644	16	8.8598099	2922	1.1401901	3c	
9	0	8.8595457	2900	9.9988598	15	8.8606859	2916	1.1393141	c	51
	30	8.8604153	2895	9.9988552	15	8.8615601	2911	1.1384399	3c	
10	0	8.8612833	2889	9.9988506	15	8.8624327	2904	1.1375673	c	50
	30	8.8621495	2883	9.9988460	15	8.8633036	2898	1.1366965	3c	
11	0	8.8630139	2878	9.9988414	16	8.8641725	2893	1.1358275	c	49
	30	8.8638766	2872	9.9988368	16	8.8650399	2887	1.1349601	3c	
12	0	8.8647376	2867	9.9988321	15	8.8659055	2882	1.1340945	c	48
	30	8.8655969	2861	9.9988275	16	8.8667695	2876	1.1332305	3c	
13	0	8.8664545	2855	6.9988228	15	8.8676317	2870	1.1323683	c	47
	30	8.8673104	2849	9.9988182	16	8.8684923	2864	1.1315077	3c	
14	0	8.8681646	2844	9.9988135	16	8.8693511	2859	1.1306489	c	46
	30	8.8690171	2838	9.9988088	15	8.8702083	2854	1.1297917	3c	
15	0	8.8698680	2832	9.9988041	15	8.8710638	2848	1.1289362	c	45
	30	8.8707171	2827	9.9987994	15	8.8719177	2842	1.1280823	3c	
16	0	8.8715646	2821	9.9987947	16	8.8727699	2837	1.1272301	c	44
	30	8.8724105	2815	9.9987900	16	8.8736205	2831	1.1263795	3c	
17	0	8.8732546	2811	9.9987853	16	8.8744694	2826	1.1255306	c	43
	30	8.8740972	2804	9.9987805	15	8.8753166	2821	1.1246834	3c	
18	0	8.8749381	2799	9.9987758	16	8.8761623	2815	1.1238377	c	42
	30	8.8757773	2794	9.9987710	15	8.8770063	2810	1.1229937	3c	
19	0	8.8766150	2788	9.9987663	16	8.8778487	2804	1.1221513	c	41
	30	8.8774510	2783	9.9987615	16	8.8786895	2799	1.1213105	3c	
20	0	8.8782854	2777	9.9987567	16	8.8795286	2794	1.1204714	c	40
	30	8.8791181	2773	9.9987519	16	8.8803662	2788	1.1196338	3c	
21	0	8.8799493	2767	9.9987471	16	8.8812022	2783	1.1187978	c	39
	30	8.8807789	2762	9.9987423	16	8.8820366	2778	1.1179634	3c	
22	0	8.8816069	2756	9.9987375	16	8.8828694	2773	1.1171306	c	38
	30	8.8824333	2751	9.9987327	16	8.8837006	2768	1.1162994	3c	
23	0	8.8832581	2746	9.9987278	16	8.8845303	2762	1.1154697	c	37
	30	8.8840814	2741	9.9987230	16	8.8853584	2757	1.1146416	3c	
24	0	8.8849031	2735	9.9987181	16	8.8861850	2751	1.1138150	c	36
	30	8.8857232	2731	9.9987133	17	8.8870100	2746	1.1129900	3c	
25	0	8.8865418	2725	9.9987084	16	8.8878334	2741	1.1121666	c	35
	30	8.8873588	2720	9.9987035	16	8.8886553	2736	1.1113447	3c	
26	0	8.8881743	2715	9.9986986	16	8.8894757	2731	1.1105243	c	34
	30	8.8889883	2709	9.9986937	16	8.8902945	2726	1.1097055	3c	
27	0	8.8898007	2704	9.9986888	16	8.8911119	2721	1.1088881	c	33
	30	8.8906116	2699	9.9986839	17	8.8919277	2716	1.1080723	3c	
28	0	8.8914209	2695	9.9986790	17	8.8927420	2711	1.1072580	c	32
	30	8.8922288	2689	9.9986740	16	8.8935548	2706	1.1064452	3c	
29	0	8.8930351	2685	9.9986691	17	8.8943660	2701	1.1056340	c	31
	30	8.8938400	2679	9.9986641	16	8.8951758	2696	1.1048242	3c	
30	0	8.8946433		9.9986591		8.8959842		1.1040158	c	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	8.8946433	2674	9.9986591	16	8.8959842	2691	1.1040158	0	30
	30	8.8954451	2670	9.9986542	17	8.8967910	2686	1.1032090	30	
31	0	8.8962455	2665	9.9986492	17	8.8975963	2681	1.1024037	0	29
	30	8.8970444	2660	9.9986442	17	8.8984002	2676	1.1015998	30	
32	0	8.8978418	2655	9.9986392	17	8.8992026	2672	1.1007974	0	28
	30	8.8986377	2650	9.9986342	17	8.9000036	2666	1.0999964	30	
33	0	8.8994322	2645	9.9986292	17	8.9008030	2662	1.0991970	0	27
	30	8.9002252	2640	9.9986241	17	8.9016011	2657	1.0983989	30	
34	0	8.9010168	2635	9.9986191	17	8.9023977	2652	1.0976023	0	26
	30	8.9018069	2630	9.9986140	17	8.9031928	2648	1.0968072	30	
35	0	8.9025955	2626	9.9986090	17	8.9039866	2642	1.0960134	0	25
	30	8.9033828	2620	9.9986039	17	8.9047788	2638	1.0952212	30	
36	0	8.9041685	2617	9.9985988	17	8.9055697	2633	1.0944303	0	24
	30	8.9049529	2611	9.9985937	17	8.9063592	2628	1.0936408	30	
37	0	8.9057358	2607	9.9985886	17	8.9071472	2624	1.0928528	0	23
	30	8.9065174	2602	9.9985835	17	8.9079338	2619	1.0920662	30	
38	0	8.9072976	2597	9.9985784	17	8.9087190	2615	1.0912810	0	22
	30	8.9080762	25,2	9.9985733	17	8.9095029	2609	1.0904971	30	
39	0	8.9088535	2588	9.9985682	17	8.9102853	2605	1.0897147	0	21
	30	8.9096294	2583	9.9985630	17	8.9110663	2601	1.0889337	30	
40	0	8.9104039	2578	9.9985579	17	8.9118460	2596	1.0881540	0	20
	30	8.9111770	2574	9.9985527	17	8.9126243	2591	1.0873757	30	
41	0	8.9119487	2570	9.9985475	17	8.9134012	2586	1.0865988	0	19
	30	8.9127191	2565	9.9985424	18	8.9141767	2582	1.0858233	30	
42	0	8.9134881	2560	9.9985372	18	8.9149509	2577	1.0850491	0	18
	30	8.9142557	2556	9.9985320	18	8.9157237	2573	1.0842763	30	
43	0	8.9150219	2551	9.9985268	18	8.9164952	2568	1.0835048	0	17
	30	8.9157868	2547	9.9985216	18	8.9172653	2564	1.0827347	30	
44	0	8.9165504	2542	9.9985163	17	8.9180340	2560	1.0819660	0	16
	30	8.9173125	2538	9.9985111	18	8.9188014	2556	1.0811986	30	
45	0	8.9180734	2533	9.9985058	17	8.9195675	2551	1.0804325	0	15
	30	8.9188329	2529	9.9985006	18	8.9203323	2546	1.0796677	30	
46	0	8.9195911	2524	9.9984953	18	8.9210957	2542	1.0789043	0	14
	30	8.9203479	2520	9.9984901	18	8.9218578	2538	1.0781422	30	
47	0	8.9211034	2516	9.9984848	18	8.9226186	2533	1.0773814	0	13
	30	8.9218576	2511	9.9984795	18	8.9233781	2529	1.0766219	30	
48	0	8.9226105	2506	9.9984742	18	8.9241363	2524	1.0758637	0	12
	30	8.9233620	2503	9.9984689	18	8.9248932	2520	1.0751068	30	
49	0	8.9241123	2498	9.9984636	18	8.9256487	2516	1.0743513	0	11
	30	8.9248613	2493	9.9984582	17	8.9264030	2512	1.0735970	30	
50	0	8.9256089	2489	9.9984529	18	8.9271560	2507	1.0728440	0	10
	30	8.9263553	2485	9.9984476	18	8.9279077	2503	1.0720923	30	
51	0	8.9271003	2481	9.9984422	18	8.9286581	2499	1.0713419	0	9
	30	8.9278441	2477	9.9984368	18	8.9294073	2494	1.0705927	30	
52	0	8.9285866	2472	9.9984315	18	8.9301552	2490	1.0698448	0	8
	30	8.9293279	2467	9.9984261	18	8.9309018	2486	1.0690982	30	
53	0	8.9300678	2464	9.9984207	18	8.9316471	2482	1.0683529	0	7
	30	8.9308065	2459	9.9984153	18	8.9323912	2478	1.0676088	30	
54	0	8.9315439	2456	9.9984099	18	8.9331340	2474	1.0668660	0	6
	30	8.9322801	2451	9.9984045	19	8.9338756	2470	1.0661244	30	
55	0	8.9330150	2447	9.9983990	18	8.9346160	2465	1.0653840	0	5
	30	8.9337487	2442	9.9983936	18	8.9353551	2461	1.0646449	30	
56	0	8.9344811	2438	9.9983881	18	8.9360929	2457	1.0639071	0	4
	30	8.9352122	2435	9.9983827	18	8.9368296	2452	1.0631704	30	
57	0	8.9359422	2430	9.9983772	18	8.9375650	2448	1.0624350	0	3
	30	8.9366709	2426	9.9983717	18	8.9382991	2445	1.0617009	30	
58	0	8.9373983	2423	9.9983663	19	8.9390321	2440	1.0609679	0	2
	30	8.9381246	2418	9.9983608	19	8.9397638	2437	1.0602362	30	
59	0	8.9388496	2414	9.9983553	19	8.9404944	2432	1.0595056	0	1
	30	8.9395734	2410	9.9983497	18	8.9412237	2428	1.0587763	30	
60	0	8.9402960		9.9983442		8.9419518		1.0580482	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	8.9402960	2406	9.9983442	18	8.9419518	2424	1.0580482	0	60
	30	8.9410174	2402	9.9983387	19	8.9426787	2420	1.0573213	30	
1	0	8.9417376	2398	9.9983332	19	8.9434044	2417	1.0565956	0	59
	30	8.9424566	2394	9.9983276	18	8.9441289	2413	1.0558711	30	
2	0	8.9431743	2390	9.9983220	18	8.9448523	2408	1.0551477	0	58
	30	8.9438909	2386	9.9983165	19	8.9455744	2405	1.0544256	30	
3	0	8.9446063	2382	9.9983109	19	8.9462954	2401	1.0537046	0	57
	30	8.9453205	2378	9.9983053	18	8.9470152	2397	1.0529848	30	
4	0	8.9460335	2374	9.9982997	18	8.9477338	2393	1.0522662	0	56
	30	8.9467454	2370	9.9982941	19	8.9484513	2389	1.0515487	30	
5	0	8.9474561	2366	9.9982885	19	8.9491676	2385	1.0508324	0	55
	30	8.9481656	2362	9.9982829	19	8.9498827	2381	1.0501173	30	
6	0	8.9488739	2359	9.9982772	18	8.9505967	2377	1.0494033	0	54
	30	8.9495811	2354	9.9982716	19	8.9513095	2373	1.0486905	30	
7	0	8.9502871	2351	9.9982660	19	8.9520211	2370	1.0479789	0	53
	30	8.9509920	2347	9.9982603	19	8.9527317	2365	1.0472683	30	
8	0	8.9516957	2343	9.9982546	19	8.9534410	2363	1.0465590	0	52
	30	8.9523982	2340	9.9982489	19	8.9541493	2358	1.0458507	30	
9	0	8.9530996	2336	9.9982433	19	8.9548564	2354	1.0451436	0	51
	30	8.9537999	2332	9.9982376	19	8.9555624	2350	1.0444376	30	
10	0	8.9544991	2328	9.9982318	19	8.9562672	2347	1.0437328	0	50
	30	8.9551971	2324	9.9982261	19	8.9569709	2344	1.0430291	30	
11	0	8.9558940	2320	9.9982204	19	8.9576735	2340	1.0423265	0	49
	30	8.9565897	2317	9.9982147	19	8.9583750	2336	1.0416250	30	
12	0	8.9572843	2313	9.9982089	19	8.9590754	2332	1.0409246	0	48
	30	8.9579779	2309	9.9982032	19	8.9597747	2328	1.0402253	30	
13	0	8.9586703	2305	9.9981974	19	8.9604728	2325	1.0395272	0	47
	30	8.9593615	2302	9.9981916	19	8.9611699	2321	1.0388301	30	
14	0	8.9600517	2298	9.9981859	19	8.9618659	2317	1.0381341	0	46
	30	8.9607408	2294	9.9981801	20	8.9625607	2314	1.0374393	30	
15	0	8.9614288	2291	9.9981743	20	8.9632545	2310	1.0367455	0	45
	30	8.9621157	2287	9.9981685	20	8.9639472	2306	1.0360528	30	
16	0	8.9628014	2284	9.9981626	20	8.9646388	2303	1.0353612	0	44
	30	8.9634861	2280	9.9981568	19	8.9653293	2299	1.0346707	30	
17	0	8.9641697	2277	9.9981510	19	8.9660188	2295	1.0339812	0	43
	30	8.9648523	2272	9.9981451	20	8.9667071	2292	1.0332929	30	
18	0	8.9655337	2269	9.9981393	20	8.9673944	2289	1.0326056	0	42
	30	8.9662141	2265	9.9981334	20	8.9680807	2285	1.0319193	30	
19	0	8.9668934	2262	9.9981275	19	8.9687658	2282	1.0312342	0	41
	30	8.9675716	2258	9.9981217	20	8.9694499	2278	1.0305501	30	
20	0	8.9682487	2255	9.9981158	20	8.9701330	2274	1.0298670	0	40
	30	8.9689248	2252	9.9981099	20	8.9708150	2271	1.0291850	30	
21	0	8.9695999	2247	9.9981040	20	8.9714959	2268	1.0285041	0	39
	30	8.9702738	2245	9.9980980	19	8.9721758	2264	1.0278242	30	
22	0	8.9709468	2240	9.9980921	20	8.9728547	2260	1.0271453	0	38
	30	8.9716186	2238	9.9980862	20	8.9735325	2257	1.0264675	30	
23	0	8.9722895	2233	9.9980802	20	8.9742092	2254	1.0257908	0	37
	30	8.9729592	2231	9.9980743	20	8.9748850	2250	1.0251150	30	
24	0	8.9736280	2227	9.9980683	20	8.9755597	2247	1.0244403	0	36
	30	8.9742957	2223	9.9980623	20	8.9762334	2243	1.0237666	30	
25	0	8.9749624	2220	9.9980563	20	8.9769060	2240	1.0230940	0	35
	30	8.9756280	2217	9.9980503	20	8.9775777	2236	1.0224223	30	
26	0	8.9762926	2213	9.9980443	20	8.9782483	2233	1.0217517	0	34
	30	8.9769562	2210	9.9980383	20	8.9789179	2229	1.0210821	30	
27	0	8.9776188	2206	9.9980323	20	8.9795865	2226	1.0204135	0	33
	30	8.9782803	2203	9.9980263	20	8.9802540	2223	1.0197460	30	
28	0	8.9789408	2200	9.9980202	20	8.9809206	2220	1.0190794	0	32
	30	8.9796004	2196	9.9980142	20	8.9815862	2216	1.0184138	30	
29	0	8.9802589	2192	9.9980081	20	8.9822507	2213	1.0177493	0	31
	30	8.9809164	2189	9.9980021	21	8.9829143	2210	1.0170857	30	
30	0	8.9815729	10″ dif.	9.9979960	10″ d.	8.9835769	10″ dif.	1.0164231	0	30
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	8.9815729	2186	9.9979960	21	8.9835769	2206	1.0164231	0	30
	30	8.9822284	2182	9.9979899	20	8.9842385	2203	1.0157615	30	
31	0	8.9828829	2179	9.9979838	20	8.9848991	2200	1.0151009	0	29
	30	8.9835364	2176	9.9979777	20	8.9855587	2196	1.0144413	30	
32	0	8.9841889	2173	9.9979716	21	8.9862173	2194	1.0137827	0	28
	30	8.9848404	2179	9.9979655	21	8.9868750	2190	1.0131250	30	
33	0	8.9854910	2166	9.9979593	20	8.9875317	2186	1.0124683	0	27
	30	8.9861405	2163	9.9979532	21	8.9881874	2183	1.0118126	30	
34	0	8.9867891	2160	9.9979470	20	8.9888421	2180	1.0111579	0	26
	30	8.9874367	2157	9.9979409	21	8.9894959	2177	1.0105041	30	
35	0	8.9880834	2153	9.9979347	21	8.9901487	2174	1.0098513	0	25
	30	8.9887290	2150	9.9979285	20	8.9908005	2171	1.0091995	30	
36	0	8.9893737	2147	9.9979223	20	8.9914514	2167	1.0085486	0	24
	30	8.9900174	2144	9.9979161	20	8.9921013	2165	1.0078987	30	
37	0	8.9906602	2141	9.9979099	21	8.9927503	2161	1.0072497	0	23
	30	8.9913020	2138	9.9979037	21	8.9933983	2158	1.0066017	30	
38	0	8.9919429	2134	9.9978975	21	8.9940454	2155	1.0059546	0	22
	30	8.9925828	2131	9.9978912	20	8.9946915	2152	1.0053085	30	
39	0	8.9932217	2128	9.9978850	21	8.9953367	2149	1.0046633	0	21
	30	8.9938597	2125	9.9978787	20	8.9959810	2145	1.0040190	30	
40	0	8.9944968	2121	9.9978725	21	8.9966243	2142	1.0033757	0	20
	30	8.9951329	2118	9.9978662	21	8.9972667	2139	1.0027333	30	
41	0	8.9957681	2115	9.9978599	21	8.9979081	2137	1.0020919	0	19
	30	8.9964023	2112	9.9978536	21	8.9985487	2133	1.0014513	30	
42	0	8.9970356	2109	9.9978473	21	8.9991883	2130	1.0008117	8	18
	30	8.9976680	2106	9.9978410	21	8.9998270	2127	1.0001730	30	
43	0	8.9982994	2103	9.9978347	21	9.0004647	2124	0.9995353	0	17
	30	8.9989300	2099	9.9978284	21	9.0011016	2120	0.9988984	30	
44	0	8.9995595	2097	9.9978220	21	9.0017375	2118	0.9982625	0	16
	30	9.0001882	2094	9.9978157	21	9.0023725	2115	0.9976275	30	
45	0	9.0008160	2090	9.9978093	21	9.0030066	2112	0.9969934	0	15
	30	9.0014428	2088	9.9978030	21	9.0036398	2109	0.9963602	30	
46	0	9.0020687	2085	9.9977966	21	9.0042721	2106	0.9957279	0	14
	30	9.0026938	2081	9.9977902	21	9.0049035	2103	0.9950965	30	
47	0	9.0033179	2078	9.9977838	21	9.0055340	2100	0.9944660	0	13
	30	9.0039411	2075	9.9977774	21	9.0061637	2096	0.9938363	30	
48	0	9.0045634	2072	9.9977710	21	9.0067924	2093	0.9932076	0	12
	30	9.0051848	2069	9.9977646	22	9.0074202	2091	0.9925798	30	
49	0	9.0058053	2066	9.9977582	22	9.0080471	2088	0.9919529	0	11
	30	9.0064249	2063	9.9977517	21	9.0086732	2085	0.9913268	30	
50	0	9.0070436	2061	9.9977453	22	9.0092984	2081	0.9907016	0	10
	30	9.0076615	2057	9.9977388	21	9.0099226	2079	0.9900774	30	
51	0	9.0082784	2055	9.9977323	21	9.0105461	2076	0.9894539	0	9
	30	9.0088945	2051	9.9977259	22	9.0111686	2073	0.9888314	30	
52	0	9.0095096	2049	9.9977194	22	9.0117903	2070	0.9882097	0	8
	30	9.0101239	2046	9.9977129	22	9.0124110	2068	0.9875890	30	
53	0	9.0107374	2042	9.9977064	22	9.0130310	2054	0.9869690	0	7
	30	9.0113499	2040	9.9976999	22	9.0136500	2062	0.9863500	30	
54	0	9.0119616	2037	9.9976933	21	9.0142682	2057	0.9857318	0	6
	30	9.0125724	2034	9.9976868	22	9.0148856	2057	0.9851144	30	
55	0	9.0131823	2032	9.9976803	22	9.0155021	2053	0.9844979	0	5
	30	9.0137914	2028	9.9976737	22	9.0161177	2050	0.9838823	30	
56	0	9.0143996	2026	9.9976672	22	9.0167325	2047	0.9832675	0	4
	30	9.0150070	2022	9.9976606	22	9.0173464	2044	0.9826536	30	
57	0	9.0156135	2019	9.9976540	22	9.0179594	2042	0.9820406	0	3
	30	9.0162191	2017	9.9976474	22	9.0185717	2036	0.9814283	30	
58	0	9.0168239	2014	9.9976408	22	9.0191831	2036	0.9808169	0	2
	30	9.0174278	2012	9.9976342	22	9.0197936	2033	0.9802064	30	
59	0	9.0180309	2009	9.9976276	22	9.0204033	2031	0.9795967	0	1
	30	9.0186332	2005	9.9976210	22	9.0210122	2028	0.9789878	30	
60	0	9.0192346		9.9976143		9.0216202		0.9783798	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.0192346	2002	9.9976143	22	9.0216202	2025	0.9783798	0	60
	30	9.0198361	2000	9.9976077	22	9.0222274	2022	0.9777726	30	
1	0	9.0204348	1998	9.9976011	23	9.0228338	2019	0.9771662	0	59
	30	9.0210337	1995	9.9975944	22	9.0234393	2017	0.9765607	30	
2	0	9.0216318	1992	9.9975877	22	9.0240441	2014	0.9759559	0	58
	30	9.0222290	1989	9.9975810	22	9.0246480	2011	0.9753520	30	
3	0	9.0228254	1986	9.9975743	22	9.0252510	2009	0.9747490	0	57
	30	9.0234210	1983	9.9975676	22	9.0258533	2006	0.9741467	30	
4	0	9.0240157	1981	9.9975609	22	9.0264548	2003	0.9735452	0	56
	30	9.0246096	1978	9.9975542	22	9.0270554	2000	0.9729446	30	
5	0	9.0252027	1975	9.9975475	22	9.0276552	1998	0.9723448	0	55
	30	9.0257950	1972	9.9975408	23	9.0282542	1995	0.9717458	30	
6	0	9.0263865	1969	9.9975340	22	9.0288524	1993	0.9711476	0	54
	30	9.0269771	1967	9.9975273	23	9.0294498	1990	0.9705502	30	
7	0	9.0275669	1965	9.9975205	23	9.0300464	1987	0.9699536	0	53
	30	9.0281560	1961	9.9975137	22	9.0306422	1985	0.9693578	30	
8	0	9.0287442	1959	9.9975069	22	9.0312373	1981	0.9687627	0	52
	30	9.0293316	1956	9.9975001	22	9.0318315	1979	0.9681685	30	
9	0	9.0299182	1954	9.9974933	22	9.0324249	1976	0.9675751	0	51
	30	9.0305040	1951	9.9974865	22	9.0330175	1974	0.9669825	30	
10	0	9.0310890	1949	9.9974797	23	9.0336093	1971	0.9663907	0	50
	30	9.0316733	1945	9.9974729	23	9.0342004	1968	0.9657996	30	
11	0	9.0322567	1943	9.9974660	22	9.0347906	1966	0.9652094	0	49
	30	9.0328393	1941	9.9974592	23	9.0353801	1963	0.9646199	30	
12	0	9.0334212	1937	9.9974523	22	9.0359688	1961	0.9640312	0	48
	30	9.0340022	1935	9.9974455	23	9.0365567	1959	0.9634433	30	
13	0	9.0345825	1932	9.9974386	23	9.0371439	1955	0.9628561	0	47
	30	9.0351620	1930	9.9974317	23	9.0377303	1953	0.9622697	30	
14	0	9.0357407	1927	9.9974248	23	9.0383159	1950	0.9616841	0	46
	30	9.0363186	1925	9.9974179	23	9.0389007	1948	0.9610993	30	
15	0	9.0368958	1922	9.9974110	23	9.0394848	1945	0.9605152	0	45
	30	9.0374721	1920	9.9974041	23	9.0400681	1942	0.9599319	30	
16	0	9.0380477	1917	9.9973971	23	9.0406506	1940	0.9593494	0	44
	30	9.0386226	1914	9.9973902	23	9.0412324	1937	0.9587676	30	
17	0	9.0391966	1912	9.9973833	24	9.0418134	1935	0.9581866	0	43
	30	9.0397699	1909	9.9973763	23	9.0423936	1933	0.9576064	30	
18	0	9.0403424	1907	9.9973693	23	9.0429731	1930	0.9570269	0	42
	30	9.0409142	1904	9.9973623	23	9.0435519	1927	0.9564481	30	
19	0	9.0414852	1902	9.9973554	24	9.0441299	1924	0.9558701	0	41
	30	9.0420555	1899	9.9973484	24	9.0447071	1922	0.9552929	30	
20	0	9.0426249	1897	9.9973414	24	9.0452836	1920	0.9547164	0	40
	30	9.0431937	1894	9.9973343	23	9.0458593	1918	0.9541407	30	
21	0	9.0437617	1891	9.9973273	23	9.0464343	1915	0.9535657	0	39
	30	9.0443289	1889	9.9973203	24	9.0470086	1913	0.9529914	30	
22	0	9.0448954	1886	9.9973132	23	9.0475821	1910	0.9524179	0	38
	30	9.0454611	1884	9.9973062	24	9.0481549	1908	0.9518451	30	
23	0	9.0460261	1882	9.9972991	23	9.0487270	1905	0.9512730	0	37
	30	9.0465903	1880	9.9972921	24	9.0492983	1903	0.9507017	30	
24	0	9.0471538	1877	9.9972850	24	9.0498689	1900	0.9501311	0	36
	30	9.0477166	1874	9.9972779	24	9.0504387	1898	0.9495613	30	
25	0	9.0482786	1872	9.9972708	24	9.0510078	1896	0.9489922	0	35
	30	9.0488399	1870	9.9972637	24	9.0515762	1894	0.9484238	30	
26	0	9.0494005	1867	9.9972566	24	9.0521439	1891	0.9478561	0	34
	30	9.0499603	1865	9.9972494	23	9.0527109	1888	0.9472891	30	
27	0	9.0505194	1862	9.9972423	24	9.0532771	1886	0.9467229	0	33
	30	9.0510778	1859	9.9972351	23	9.0538426	1884	0.9461574	30	
28	0	9.0516354	1857	9.9972280	24	9.0544074	1881	0.9455926	0	32
	30	9.0521923	1855	9.9972208	24	9.0549715	1879	0.9450285	30	
29	0	9.0527485	1853	9.9972137	24	9.0555349	1876	0.9444651	0	31
	30	9.0533040	1850	9.9972065	24	9.0560975	1874	0.9439025	30	
30	0	9.0538588		9.9971993		9.0566595		0.9433405	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.0538588	1847	9.9971993	24	9.0566595	1871	0.9433405	0	30
	30	9.0544128	1845	9.9971921	24	9.0572207	1869	0.9427793	30	
31	0	9.0549661	1843	9.9971849	24	9.0577813	1866	0.9422187	0	29
	30	9.0555187	1841	9.9971776	24	9.0583411	1864	0.9416589	30	
32	0	9.0560706	1838	9.9971704	24	9.0589002	1862	0.9410998	0	28
	30	9.0566218	1836	9.9971632	24	9.0594586	1860	0.9405414	30	
33	0	9.0571723	1833	9.9971559	24	9.0600164	1857	0.9399836	0	27
	30	9.0577221	1831	9.9971487	24	9.0605734	1855	0.9394266	30	
34	0	9.0582711	1829	9.9971414	24	9.0611297	1853	0.9388703	0	26
	30	9.0588196	1827	9.9971341	24	9.0616854	1850	0.9383146	30	
35	0	9.0593672	1824	9.9971268	24	9.0622403	1849	0.9377597	0	25
	30	9.0599142	1821	9.9971196	24	9.0627946	1846	0.9372054	30	
36	0	9.0604604	1820	9.9971122	24	9.0633482	1843	0.9366518	0	24
	30	9.0610060	1817	9.9971049	24	9.0639011	1841	0.9360989	30	
37	0	9.0615509	1815	9.9970976	24	9.0644533	1839	0.9355467	0	23
	30	9.0620951	1812	9.9970903	25	9.0650048	1837	0.9349952	30	
38	0	9.0626386	1810	9.9970829	24	9.0655556	1835	0.9344444	0	22
	30	9.0631814	1808	9.9970756	25	9.0661058	1832	0.9338942	30	
39	0	9.0637235	1806	9.9970682	24	9.0666553	1830	0.9333447	0	21
	30	9.0642650	1803	9.9970609	25	9.0672041	1828	0.9327959	30	
40	0	9.0648057	1801	9.9970535	25	9.0677522	1826	0.9322478	0	20
	30	9.0653458	1799	9.9970461	25	9.0682997	1823	0.9317003	30	
41	0	9.0658852	1796	9.9970387	25	9.0688465	1821	0.9311535	0	19
	30	9.0664239	1794	9.9970313	25	9.0693926	1819	0.9306074	30	
42	0	9.0669619	1792	9.9970239	25	9.0699381	1816	0.9300619	0	18
	30	9.0674993	1790	9.9970165	25	9.0704829	1814	0.9295171	30	
43	0	9.0680360	1787	9.9970090	25	9.0710270	1812	0.9289730	0	17
	30	9.0685720	1785	9.9970016	25	9.0715704	1811	0.9284296	30	
44	0	9.0691074	1783	9.9969941	25	9.0721133	1807	0.9278867	0	16
	30	9.0696421	1780	9.9969867	25	9.0726554	1806	0.9273446	30	
45	0	9.0701761	1778	9.9969792	25	9.0731969	1803	0.9268031	0	15
	30	9.0707094	1777	9.9969717	25	9.0737377	1801	0.9262623	30	
46	0	9.0712421	1774	9.9969642	25	9.0742779	1799	0.9257221	0	14
	30	9.0717741	1772	9.9969567	25	9.0748174	1797	0.9251826	30	
47	0	9.0723055	1770	9.9969492	25	9.0753563	1795	0.9246437	0	13
	30	9.0728362	1768	9.9969417	25	9.0758945	1793	0.9241055	30	
48	0	9.0733663	1765	9.9969342	25	9.0764321	1790	0.9235679	0	12
	30	9.0738957	1763	9.9969266	25	9.0769690	1789	0.9230310	30	
49	0	9.0744244	1761	9.9969191	25	9.0775053	1786	0.9224947	0	11
	30	9.0749525	1759	9.9969115	25	9.0780410	1784	0.9219590	30	
50	0	9.0754799	1757	9.9969040	26	9.0785760	1782	0.9214240	0	10
	30	9.0760067	1755	9.9968964	25	9.0791103	1780	0.9208897	30	
51	0	9.0765329	1752	9.9968888	25	9.0796441	1777	0.9203559	0	9
	30	9.0770584	1750	9.9968812	25	9.0801771	1776	0.9198229	30	
52	0	9.0775832	1748	9.9968736	25	9.0807096	1773	0.9192904	0	8
	30	9.0781074	1746	9.9968660	25	9.0812414	1771	0.9187586	30	
53	0	9.0786310	1744	9.9968584	25	9.0817726	1769	0.9182274	0	7
	30	9.0791539	1742	9.9968507	26	9.0823032	1767	0.9176968	30	
54	0	9.0796762	1740	9.9968431	26	9.0828331	1765	0.9171669	0	6
	30	9.0801979	1737	9.9968355	26	9.0833624	1763	0.9166376	30	
55	0	9.0807189	1735	9.9968278	26	9.0838911	1761	0.9161089	0	5
	30	9.0812393	1733	9.9968201	25	9.0844191	1759	0.9155809	30	
56	0	9.0817590	1731	9.9968125	26	9.0849466	1756	0.9150534	0	4
	30	9.0822781	1729	9.9968048	26	9.0854734	1754	0.9145266	30	
57	0	9.0827966	1727	9.9967971	26	9.0859996	1752	0.9140004	0	3
	30	9.0833145	1725	9.9967894	26	9.0865251	1751	0.9134749	30	
58	0	9.0838317	1723	9.9967817	26	9.0870501	1748	0.9129499	0	2
	30	9.0843484	1720	9.9967739	26	9.0875744	1747	0.9124256	30	
59	0	9.0848643	1719	9.9967662	25	9.0880981	1745	0.9119019	0	1
	30	9.0853797	1717	9.9967585	26	9.0886213	1742	0.9113787	30	
60	0	9.0858945		9.9967507		9.0891438		0.9108562	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	′	′
0	0	9.0858945	1714	9.9967607	26	9.0891438	1740	0.9108562	0	60
	30	9.0864086	1712	9.9967429	25	9.0896657	1738	0.9103343	30	
1	0	9.0869221	1711	9.9967252	26	9.0901869	1737	0.9098131	0	59
	30	9.0874350	1709	9.9967074	26	9.0907076	1734	0.9092924	30	
2	0	9.0879473	1708	9.9967196	26	9.0912277	1732	0.9087723	0	58
	30	9.0884590	1704	9.9967118	26	9.0917472	1730	0.9082528	30	
3	0	9.0889700	1703	9.9967040	26	9.0922662	1729	0.9077340	0	57
	30	9.0894805	1700	9.9966962	26	9.0927843	1726	0.9072157	30	
4	0	9.0899903	1699	9.9966884	26	9.0933020	1724	0.9066980	0	56
	30	9.0904996	1696	9.9966805	26	9.0938190	1723	0.9061810	30	
5	0	9.0910082	1694	9.9966727	26	9.0943355	1720	0.9056645	0	55
	30	9.0915162	1692	9.9966648	26	9.0948514	1718	0.9051486	30	
6	0	9.0920237	1690	9.9966570	27	9.0953667	1716	0.9046333	0	54
	30	9.0925305	1688	9.9966491	26	9.0958814	1714	0.9041186	30	
7	0	9.0930367	1686	9.9966412	26	9.0963955	1712	0.9036045	0	53
	30	9.0935423	1684	9.9966333	26	9.0969090	1710	0.9030910	30	
8	0	9.0940474	1682	9.9966254	26	9.0974219	1709	0.9025781	0	52
	30	9.0945518	1680	9.9966175	26	9.0979343	1706	0.9020657	30	
9	0	9.0950556	1678	9.9966096	26	9.0984460	1705	0.9015540	0	51
	30	9.0955589	1676	9.9966017	27	9.0989572	1703	0.9010428	30	
10	0	9.0960615	1674	9.9965937	26	9.0994678	1701	0.9005322	0	50
	30	9.0965636	1672	9.9965858	27	9.0999778	1699	0.9000222	30	
11	0	9.0970651	1670	9.9965778	26	9.1004872	1697	0.8995128	0	49
	30	9.0975659	1669	9.9965699	27	9.1009961	1695	0.8990039	30	
12	0	9.0980662	1667	9.9965619	27	9.1015044	1693	0.8984956	0	48
	30	9.0985660	1664	9.9965539	27	9.1020121	1691	0.8979879	03	
13	0	9.0990651	1662	9.9965459	27	9.1025192	1689	0.8974808	0	47
	30	9.0995636	1661	9.9965379	27	9.1030257	1688	0.8969743	30	
14	0	9.1000616	1659	9.9965299	27	9.1035317	1685	0.8964683	0	46
	30	9.1005590	1657	9.9965219	27	9.1040371	1684	0.8959629	30	
15	0	9.1010558	1655	9.9965138	26	9.1045420	1681	0.8954580	0	45
	30	9.1015520	1653	9.9965058	27	9.1050462	1680	0.8949538	30	
16	0	9.1020477	1651	9.9964977	26	9.1055500	1677	0.8944500	0	44
	30	9.1025428	1649	9.9964897	27	9.1060531	1676	0.8939469	30	
17	0	9.1030373	1647	9.9964816	27	9.1065557	1674	0.8934443	0	43
	30	9.1035312	1646	9.9964735	27	9.1070577	1672	0.8929423	30	
18	0	9.1040246	1643	9.9964655	27	9.1075591	1671	0.8924409	0	42
	30	9.1045174	1641	9.9964574	27	9.1080600	1669	0.8919400	30	
19	0	9.1050096	1640	9.9964493	27	9.1085604	1666	0.8914396	0	41
	30	9.1055013	1638	9.9964411	27	9.1090602	1664	0.8909398	30	
20	0	9.1059924	1636	9.9964330	27	9.1095594	1663	0.8904406	0	40
	30	9.1064829	1634	9.9964249	27	9.1100581	1661	0.8899419	30	
21	0	9.1069729	1632	9.9964167	27	9.1105562	1659	0.8894438	0	39
	30	9.1074623	1630	9.9964086	27	9.1110537	1658	0.8889463	30	
22	0	9.1079512	1628	9.9964004	27	9.1115508	1655	0.8884492	0	38
	30	9.1084395	1626	9.9963923	28	9.1120472	1654	0.8879528	30	
23	0	9.1089272	1625	9.9963841	28	9.1125431	1652	0.8874569	0	37
	30	9.1094144	1623	9.9963759	27	9.1130385	1650	0.8869615	30	
24	0	9.1099010	1621	9.9963677	28	9.1135333	1649	0.8864667	0	36
	30	9.1103871	1619	9.9963595	28	9.1140276	1646	0.8859724	30	
25	0	9.1108726	1617	9.9963513	28	9.1145213	1645	0.8854787	0	35
	30	9.1113576	1615	9.9963430	27	9.1150145	1643	0.8849855	30	
26	0	9.1118420	1613	9.9963348	28	9.1155072	1641	0.8844928	0	34
	30	9.1123259	1611	9.9963265	27	9.1159993	1639	0.8840007	30	
27	0	9.1128092	1610	9.9963183	28	9.1164909	1637	0.8835091	0	33
	30	9.1132920	1608	9.9963100	27	9.1169819	1636	0.8830181	30	
28	0	9.1137742	1606	9.9963018	28	9.1174724	1634	0.8825276	0	32
	30	9.1142559	1604	9.9962935	28	9.1179624	1632	0.8820376	30	
29	0	9.1147370	1603	9.9962852	28	9.1184518	1631	0.8815482	0	31
	30	9.1152176	1601	9.9962769	28	9.1189407	1629	0.8810593	30	
30	0	9.1156977		9.9962686		9.1194291		0.8805709	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.1156977	1599	9.9962686	28	9.1194291	1627	0.8805709	0	30
	30	9.1161772	1597	9.9962602	27	9.1199169	1625	0.8800831	30	
31	0	9.1166562	1595	9.9962519	28	9.1204043	1623	0.8795957	0	29
	30	9.1171346	1594	9.9962436	28	9.1208910	1622	0.8791090	30	
32	0	9.1176125	1592	9.9962352	28	9.1213773	1620	0.8786227	0	28
	30	9.1180899	1590	9.9962269	28	9.1218630	1618	0.8781370	30	
33	0	9.1185667	1589	9.9962185	28	9.1223482	1617	0.8776518	0	27
	30	9.1190431	1586	9.9962101	28	9.1228329	1615	0.8771671	30	
34	0	9.1195188	1585	9.9962017	28	9.1233171	1613	0.8766829	0	26
	30	9.1199941	1583	9.9961933	28	9.1238007	1611	0.8761993	30	
35	0	9.1204688	1581	9.9961849	28	9.1242839	1609	0.8757161	0	25
	30	9.1209430	1579	9.9961765	28	9.1247665	1607	0.8752335	30	
36	0	9.1214167	1577	9.9961681	28	9.1252486	1605	0.8747514	0	24
	30	9.1218898	1576	9.9961597	28	9.1257301	1604	0.8742699	30	
37	0	9.1223624	1574	9.9961512	28	9.1262112	1602	0.8737888	0	23
	30	9.1228345	1573	9.9961428	28	9.1266917	1601	0.8733083	30	
38	0	9.1233061	1571	9.9961343	28	9.1271718	1599	0.8728282	0	22
	30	9.1237771	1569	9.9961258	28	9.1276513	1597	0.8723487	30	
39	0	9.1242477	1567	9.9761174	29	9.1281303	1596	0.8718697	0	21
	30	9.1247177	1565	9.9961089	29	9.1286088	1594	0.8713912	30	
40	0	9.1251872	1564	9.9961004	29	9.1290868	1592	0.8709132	0	20
	30	9.1256562	1562	9.9960919	29	9.1295643	1590	0.8704357	30	
41	0	9.1261246	1561	9.9960834	29	9.1300413	1589	0.8699587	0	19
	30	9.1265926	1559	9.9960748	28	9.1305178	1587	0.8694822	30	
42	0	9.1270600	1557	9.9960663	29	9.1309937	1586	0.8690063	0	18
	30	9.1275269	1556	9.9960577	28	9.1314692	1584	0.8685308	30	
43	0	9.1279934	1553	9.9960492	29	9.1319442	1582	0.8680558	0	17
	30	9.1284593	1552	9.9960406	28	9.1324186	1581	0.8675814	30	
44	0	9.1289247	1550	9.9960321	29	9.1328926	1579	0.8671074	0	16
	30	9.1293896	1548	9.9960235	29	9.1333661	1577	0.8666339	30	
45	0	9.1298539	1547	9.9960149	29	9.1338391	1575	0.8661609	0	15
	30	9.1303178	1545	9.9960063	29	9.1343115	1574	0.8656885	30	
46	0	9.1307812	1543	9.9959977	29	9.1347835	1573	0.8652165	0	14
	30	9.1312441	1542	9.9959891	29	9.1352550	1571	0.8647450	30	
47	0	9.1317064	1541	9.9959804	29	9.1357260	1569	0.8642740	0	13
	30	9.1321683	1539	9.9959718	29	9.1361965	1568	0.8638035	30	
48	0	9.1326297	1537	9.9959631	29	9.1366665	1566	0.8633335	0	12
	30	9.1330906	1535	9.9959545	29	9.1371361	1564	0.8628639	30	
49	0	9.1335509	1534	9.9959458	29	9.1376051	1563	0.8623949	0	11
	30	9.1340108	1532	9.9959371	29	9.1380737	1560	0.8619263	30	
50	0	9.1344702	1530	9.9959284	28	9.1385417	1559	0.8614583	0	10
	30	9.1349291	1528	9.9959198	29	9.1390093	1558	0.8609907	30	
51	0	9.1353875	1527	9.9959111	30	9.1394764	1556	0.8605236	0	9
	30	9.1358454	1525	9.9959023	29	9.1399430	1555	0.8600570	30	
52	0	9.1363028	1523	9.9958936	29	9.1404092	1552	0.8595908	0	8
	30	9.1367597	1522	9.9958849	29	9.1408748	1551	0.8591252	30	
53	0	9.1372161	1521	9.9958761	29	9.1413400	1549	0.8586600	0	7
	30	9.1376721	1518	9.9958674	29	9.1418047	1548	0.8581953	30	
54	0	9.1381275	1517	9.9958586	29	9.1422689	1546	0.8577311	0	6
	30	9.1385825	1515	9.9958499	30	9.1427326	1545	0.8572674	30	
55	0	9.1390370	1513	9.9958411	29	9.1431959	1543	0.8568041	0	5
	30	9.1394910	1512	9.9958323	29	9.1436587	1541	0.8563413	30	
56	0	9.1399445	1510	9.9958235	29	9.1441210	1540	0.8558790	0	4
	30	9.1403975	1509	9.9958147	30	9.1445828	1539	0.8554172	30	
57	0	9.1408501	1507	9.9958059	30	9.1450442	1537	0.8549558	0	3
	30	9.1413021	1506	9.9957970	29	9.1455051	1535	0.8544949	30	
58	0	9.1417537	1504	9.9957882	29	9.1459655	1534	0.8540345	0	2
	30	9.1422048	1503	9.9957794	30	9.1464255	1532	0.8535745	30	
59	0	9.1426555	1501	9.9957705	29	9.1468849	1531	0.8531151	0	1
	30	9.1431056	1500	9.9957616	29	9.1473440	1529	0.8526560	30	
60	0	9.1435553		9.9957528		0.1478025		0.8521975	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.1435553	1498	9.9957528	30	9.1478025	1528	0.8521975	0	60
	30	9.1440045	1476	9.9957439	30	9.1482606	1526	0.8517394	30	
1	0	9.1444532	1495	9.9957350	30	9.1487182	1525	0.8512818	0	59
	30	9.1449015	1493	9.9957261	30	9.1491754	1523	0.8508246	30	
2	0	9.1453493	1492	9.9957172	30	9.1496321	1521	0.8503679	0	58
	30	9.1457966	1490	9.9957083	30	9.1500884	1519	0.8499116	30	
3	0	9.1462435	1488	9.9956993	29	9.1505441	1519	0.8494559	0	57
	30	9.1466899	1487	9.9956904	30	9.1509995	1516	0.8490005	30	
4	0	9.1471358	1485	9.9956815	30	9.1514543	1515	0.8485457	0	56
	30	9.1475812	1484	9.9956725	30	9.1519087	1514	0.8480913	30	
5	0	9.1480262	1482	9.9956635	30	9.1523627	1512	0.8476373	0	55
	30	9.1484707	1481	9.9956546	30	9.1528162	1510	0.8471838	30	
6	0	9.1489148	1479	9.9956456	30	9.1532692	1509	0.8467308	0	54
	30	9.1493584	1477	9.9956366	30	9.1537218	1508	0.8462782	30	
7	0	9.1498015	1476	9.9956276	30	9.1541739	1507	0.8458261	0	53
	30	9.1502442	1474	9.9956186	30	9.1546256	1505	0.8453744	30	
8	0	9.1506864	1473	9.9956095	30	9.1550769	1503	0.8449231	0	52
	30	9.1511281	1472	9.9956005	30	9.1555276	1502	0.8444724	30	
9	0	9.1515694	1470	9.9955915	31	9.1559780	1500	0.8440220	0	51
	30	9.1520103	1468	9.9955824	30	9.1564279	1498	0.8435721	30	
10	0	9.1524507	1467	9.9955734	30	9.1568773	1497	0.8431227	0	50
	30	9.1528906	1465	9.9955643	30	9.1573263	1496	0.8426737	30	
11	0	9.1533301	1463	9.9955552	30	9.1577748	1495	0.8422252	0	49
	30	9.1537691	1462	9.9955461	30	9.1582230	1492	0.8417770	30	
12	0	9.1542076	1461	9.9955370	30	9.1586706	1491	0.8413294	0	48
	30	9.1546457	1460	9.9955279	30	9.1591178	1490	0.8408822	30	
13	0	9.1550834	1458	9.9955188	30	9.1595646	1488	0.8404354	0	47
	30	9.1555206	1457	9.9955097	31	9.1600110	1486	0.8399890	30	
14	0	9.1559574	1455	9.9955005	30	9.1604569	1485	0.8395431	0	46
	30	9.1563937	1453	9.9954914	31	9.1609023	1484	0.8390977	30	
15	0	9.1568296	1452	9.9954822	30	9.1613473	1483	0.8386527	0	45
	30	9.1572650	1450	9.9954731	31	9.1617919	1481	0.8382081	30	
16	0	9.1577000	1449	9.9954639	31	9.1622361	1479	0.8377639	0	44
	30	9.1581345	1447	9.9954547	30	9.1626798	1478	0.8373202	30	
17	0	9.1585686	1446	9.9954455	30	9.1631231	1476	0.8368769	0	43
	30	9.1590022	1445	9.9954363	30	9.1635659	1475	0.8364341	30	
18	0	9.1594354	1443	9.9954271	30	9.1640083	1474	0.8359917	0	42
	30	9.1598682	1442	9.9954179	31	9.1644503	1472	0.8355497	30	
19	0	9.1603005	1440	9.9954087	31	9.1648919	1471	0.8351081	0	41
	30	9.1607324	1439	9.9953994	31	9.1653330	1469	0.8346670	30	
20	0	9.1611639	1437	9.9953902	31	9.1657737	1468	0.8342263	0	40
	30	9.1615949	1435	9.9953809	31	9.1662139	1467	0.8337861	30	
21	0	9.1620254	1435	9.9953717	31	9.1666538	1465	0.8333462	0	39
	30	9.1624556	1433	9.9953624	31	9.1670932	1464	0.8329068	30	
22	0	9.1628853	1431	9.9953531	31	9.1675322	1462	0.8324678	0	38
	30	9.1633146	1429	9.9953438	31	9.1679708	1460	0.8320292	30	
23	0	9.1637434	1428	9.9953345	31	9.1684089	1459	0.8315911	0	37
	30	9.1641718	1427	9.9953252	31	9.1688466	1458	0.8311534	30	
24	0	9.1645998	1425	9.9953159	31	9.1692839	1457	0.8307161	0	36
	30	9.1650273	1424	9.9953065	31	9.1697208	1455	0.8302792	30	
25	0	9.1654544	1423	9.9952972	31	9.1701572	1454	0.8298428	0	35
	30	9.1658811	1421	9.9952878	31	9.1705933	1452	0.8294067	30	
26	0	9.1663074	1419	9.9952785	31	9.1710289	1451	0.8289711	0	34
	30	9.1667332	1418	9.9952691	31	9.1714641	1449	0.8285359	30	
27	0	9.1671586	1417	9.9952597	31	9.1718989	1448	0.8281011	0	33
	30	9.1675836	1415	9.9952503	31	9.1723332	1447	0.8276668	30	
28	0	9.1680081	1414	9.9952409	31	9.1727672	1445	0.8272328	0	32
	30	9.1684322	1413	9.9952315	31	9.1732007	1444	0.8267993	30	
29	0	9.1688559	1412	9.9952221	31	9.1736338	1443	0.8263662	0	31
	30	9.1692792	1410	9.9952127	32	9.1740665	1442	0.8259335	30	
30	0	9.1697021		9.9952033		9.1744988		0.8255012	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.1677021	1408	9.9950033	31	9.1744988	1440	0.8255012	0	30
	30	9.1701245	1407	9.9950038	32	9.1749307	1439	0.8250693	30	
31	0	9.1705465	1406	9.9950344	32	9.1753622	1437	0.8246378	0	29
	30	9.1709682	1404	9.9950749	32	9.1757933	1436	0.8242067	30	
32	0	9.1713893	1403	9.9950534	32	9.1762239	1435	0.8237761	0	28
	30	9.1718101	1402	9.9950539	31	9.1766542	1433	0.8233458	30	
33	0	9.1722305	1400	9.9950464	32	9.1770840	1432	0.8229160	0	27
	30	9.1726504	1399	9.9950369	31	9.1775134	1431	0.8224866	30	
34	0	9.1730699	1398	9.9950274	32	9.1779425	1429	0.8220575	0	26
	30	9.1734890	1396	9.9950179	32	9.1783711	1428	0.8216289	30	
35	0	9.1739077	1395	9.9951084	32	9.1787993	1427	0.8212007	0	25
	30	9.1743260	1393	9.9950988	31	9.1792271	1426	0.8207729	30	
36	0	9.1747439	1392	9.9950893	32	9.1796546	1423	0.8203454	0	24
	30	9.1751613	1391	9.9950797	31	9.1800816	1422	0.8199184	30	
37	0	9.1755784	1389	9.9950702	32	9.1805082	1421	0.8194918	0	23
	30	9.1759950	1388	9.9950606	32	9.1809344	1420	0.8190656	30	
38	0	9.1764112	1387	9.9950510	32	9.1813602	1419	0.8186398	0	22
	30	9.1768270	1386	9.9950414	32	9.1817856	1417	0.8182144	30	
39	0	9.1772425	1383	9.9950318	32	9.1822106	1416	0.8177894	0	21
	30	9.1776575	1382	9.9950222	32	9.1826353	1414	0.8173647	30	
40	0	9.1780721	1381	9.9950126	32	9.1830595	1413	0.8169405	0	20
	30	9.1784863	1380	9.9950029	32	9.1834833	1411	0.8165167	30	
41	0	9.1789001	1378	9.9949933	32	9.1839068	1410	0.8160932	0	19
	30	9.1793135	1377	9.9949836	32	9.1843298	1409	0.8156702	30	
42	0	9.1797265	1376	9.9949740	32	9.1847525	1408	0.8152475	0	18
	30	9.1801390	1375	9.9949643	32	9.1851747	1407	0.8148253	30	
43	0	9.1805512	1373	9.9949546	32	9.1855966	1405	0.8144034	0	17
	30	9.1809630	1372	9.9949449	32	9.1860181	1404	0.8139819	30	
44	0	9.1813744	1370	9.9949352	32	9.1864392	1403	0.8135608	0	16
	30	9.1817854	1369	9.9949255	32	9.1868599	1401	0.8131401	30	
45	0	9.1821960	1368	9.9949158	32	9.1872802	1400	0.8127198	0	15
	30	9.1826062	1366	9.9949061	32	9.1877001	1399	0.8122999	30	
46	0	9.1830160	1365	9.9948964	33	9.1881196	1398	0.8118804	0	14
	30	9.1834254	1364	9.9948866	33	9.1885388	1396	0.8114612	30	
47	0	9.1838344	1362	9.9948769	33	9.1889575	1395	0.8110425	0	13
	30	9.1842430	1361	9.9948671	33	9.1893759	1394	0.8106241	30	
48	0	9.1846512	1360	9.9948573	33	9.1897939	1392	0.8102061	0	12
	30	9.1850591	1359	9.9948475	33	9.1902115	1391	0.8097885	30	
49	0	9.1854665	1357	9.9948377	33	9.1906287	1390	0.8093713	0	11
	30	9.1858735	1356	9.9948279	33	9.1910456	1389	0.8089544	30	
50	0	9.1862802	1355	9.9948181	32	9.1914621	1387	0.8085379	0	10
	30	9.1866865	1353	9.9948083	33	9.1918781	1387	0.8081219	30	
51	0	9.1870923	1352	9.9947985	33	9.1922939	1384	0.8077061	0	9
	30	9.1874978	1351	9.9947886	32	9.1927092	1383	0.8072908	30	
52	0	9.1879029	1350	9.9947788	33	9.1931241	1383	0.8068759	0	8
	30	9.1883076	1349	9.9947689	33	9.1935387	1381	0.8064613	30	
53	0	9.1887120	1347	9.9947591	33	9.1939529	1380	0.8060471	0	7
	30	9.1891159	1346	9.9947492	33	9.1943667	1379	0.8056333	30	
54	0	9.1895195	1344	9.9947393	33	9.1947802	1377	0.8052198	0	6
	30	9.1899226	1343	9.9947294	33	9.1951932	1376	0.8048068	30	
55	0	9.1903254	1342	9.9947195	33	9.1956059	1375	0.8043941	0	5
	30	9.1907278	1341	9.9947096	33	9.1960183	1373	0.8039817	30	
56	0	9.1911299	1339	9.9946997	33	9.1964302	1372	0.8035698	0	4
	30	9.1915315	1338	9.9946897	33	9.1968418	1371	0.8031582	30	
57	0	9.1919328	1337	9.9946798	33	9.1972530	1370	0.8027470	0	3
	30	9.1923337	1335	9.9946698	33	9.1976638	1369	0.8023362	30	
58	0	9.1927342	1334	9.9946599	34	9.1980743	1368	0.8019257	0	2
	30	9.1931343	1333	9.9946499	33	9.1984844	1366	0.8015156	30	
59	0	9.1935341	1332	9.9946399	33	9.1988941	1365	0.8011059	0	1
	30	9.1939334	1331	9.9946299	33	9.1993035	1364	0.8006965	30	
60	0	9.1943324		9.9946199		9.1997125		0.8002875	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.1943324	1330	9.9946199	33	9.1997125	1363	0.8002875	0	60
	30	9.1947311	1328	9.9946099	33	9.2001211	1362	0.7998789	30	
1	0	9.1951293	1327	9.9945999	33	9.2005294	1360	0.7994706	0	59
	30	9.1955272	1325	9.9945899	34	9.2009373	1359	0.7990627	30	
2	0	9.1959247	1324	9.9945798	33	9.2013449	1357	0.7986551	0	58
	30	9.1963218	1323	9.9945698	34	9.2017520	1357	0.7982480	30	
3	0	9.1967186	1321	9.9945597	33	9.2021588	1356	0.7978412	0	57
	30	9.1971150	1320	9.9945497	34	9.2025653	1354	0.7974347	30	
4	0	9.1975110	1319	9.9945396	34	9.2029714	1353	0.7970286	0	56
	30	9.1979066	1318	9.9945295	34	9.2033771	1352	0.7966229	30	
5	0	9.1983019	1317	9.9945194	34	9.2037825	1350	0.7962175	0	55
	30	9.1986968	1316	9.9945093	34	9.2041875	1349	0.7958125	30	
6	0	9.1990913	1315	9.9944992	34	9.2045922	1348	0.7954078	0	54
	30	9.1994855	1313	9.9944891	34	9.2049964	1347	0.7950036	30	
7	0	9.1998793	1312	9.9944789	33	9.2054004	1346	0.7945996	0	53
	30	9.2002728	1310	9.9944688	34	9.2058040	1344	0.7941960	30	
8	0	9.2006658	1310	9.9944587	34	9.2062072	1343	0.7937928	0	52
	30	9.2010586	1308	9.9944485	34	9.2066101	1342	0.7933899	30	
9	0	9.2014509	1307	9.9944383	34	9.2070126	1341	0.7929874	0	51
	30	9.2018429	1306	9.9944281	34	9.2074147	1340	0.7925853	30	
10	0	9.2022345	1305	9.9944180	34	9.2078165	1339	0.7921835	0	50
	30	9.2026258	1303	9.9944078	34	9.2082180	1337	0.7917820	30	
11	0	9.2030167	1302	9.9943975	34	9.2086191	1336	0.7913809	0	49
	30	9.2034072	1301	9.9943873	34	9.2090199	1335	0.7909801	30	
12	0	9.2037974	1299	9.9943771	34	9.2094203	1333	0.7905797	0	48
	30	9.2041872	1298	9.9943669	34	9.2098203	1333	0.7901797	30	
13	0	9.2045766	1298	9.9943566	34	9.2102200	1332	0.7897800	0	47
	30	9.2049657	1297	9.9943464	34	9.2106194	1330	0.7893806	30	
14	0	9.2053545	1295	9.9943361	34	9.2110184	1329	0.7889816	0	45
	30	9.2057429	1293	9.9943258	34	9.2114170	1328	0.7885830	30	
15	0	9.2061309	1293	9.9943156	35	9.2118153	1327	0.7881847	0	45
	30	9.2065186	1291	9.9943053	35	9.2122133	1326	0.7877867	30	
16	0	9.2069059	1290	9.9942950	35	9.2126109	1325	0.7873891	0	44
	30	9.2072929	1289	9.9942846	34	9.2130082	1324	0.7869918	30	
17	0	9.2076795	1288	9.9942743	34	9.2134051	1323	0.7865949	0	43
	30	9.2080657	1287	9.9942640	34	9.2138017	1321	0.7861983	30	
18	0	9.2084516	1286	9.9942537	35	9.2141980	1320	0.7858020	0	42
	30	9.2088372	1284	9.9942433	34	9.2145939	1319	0.7854061	30	
19	0	9.2092224	1283	9.9942330	35	9.2149894	1318	0.7850106	0	41
	30	9.2096072	1282	9.9942226	35	9.2153846	1317	0.7846154	30	
20	0	9.2099917	1281	9.9942122	35	9.2157795	1316	0.7842205	0	40
	30	9.2103759	1280	9.9942018	35	9.2161741	1314	0.7838259	30	
21	0	9.2107597	1278	9.9941914	34	9.2165683	1313	0.7834317	0	39
	30	9.2111431	1278	9.9941810	34	9.2169621	1312	0.7830379	30	
22	0	9.2115263	1276	9.9941706	35	9.2173556	1311	0.7826444	0	38
	30	9.2119090	1275	9.9941602	35	9.2177488	1310	0.7822512	30	
23	0	9.2122914	1274	9.9941498	35	9.2181417	1309	0.7818583	0	37
	30	9.2126735	1273	9.9941393	35	9.2185342	1308	0.7814658	30	
24	0	9.2130552	1272	9.9941289	35	9.2189264	1306	0.7810736	0	36
	30	9.2134366	1271	9.9941184	35	9.2193182	1306	0.7806818	30	
25	0	9.2138176	1270	9.9941079	35	9.2197097	1304	0.7802903	0	35
	30	9.2141983	1269	9.9940974	35	9.2201009	1303	0.7798991	30	
26	0	9.2145787	1267	9.9940870	35	9.2204917	1302	0.7795083	0	34
	30	9.2149587	1266	9.9940765	35	9.2208822	1301	0.7791178	30	
27	0	9.2153384	1264	9.9940659	35	9.2212724	1300	0.7787276	0	33
	30	9.2157177	1264	9.9940554	35	9.2216623	1298	0.7783377	30	
28	0	9.2160967	1262	9.9940449	35	9.2220518	1297	0.7779482	0	32
	30	9.2164753	1262	9.9940344	36	9.2224410	1296	0.7775590	30	
29	0	9.2168536	1261	9.9940238	35	9.2228298	1296	0.7771702	0	31
	30	9.2172316	1259	9.9940133	36	9.2232183	1295	0.7767817	30	
30	0	9.2176092	10″ dif.	9.9940027	10″ d.	9.2236065	10″ dif.	0.7763935	0	30
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.2176092	1258	9.9940027	35	9.2236065	1294	0.7763935	0	30
	30	9.2177350	1257	9.9939991	35	9.2239344	1292	0.7760656	30	
31	0	9.2178607	1256	9.9939815	35	9.2243819	1292	0.7756181	0	29
	30	9.2179863	1255	9.9939709	35	9.2247292	1290	0.7752708	30	
32	0	9.2181164	1253	9.9939603	35	9.2251561	1288	0.7748439	0	28
	30	9.2182423	1253	9.9939497	35	9.2255426	1288	0.7744574	30	
33	0	9.2183680	1251	9.9939391	35	9.2259289	1286	0.7740711	0	27
	30	9.2184932	1251	9.9939285	36	9.2263148	1285	0.7736852	30	
34	0	9.2186182	1249	9.9939178	35	9.2267004	1284	0.7732996	0	26
	30	9.2187428	1248	9.9939072	36	9.2270856	1284	0.7729144	30	
35	0	9.2188671	1247	9.9938965	35	9.2274706	1282	0.7725294	0	25
	30	9.2189910	1246	9.9938858	35	9.2278552	1281	0.7721448	30	
36	0	9.2191147	1244	9.9938752	36	9.2282395	1280	0.7717605	0	24
	30	9.2192380	1243	9.9938645	36	9.2286235	1279	0.7713765	30	
37	0	9.2193609	1241	9.9938538	36	9.2290071	1279	0.7709929	0	23
	30	9.2194836	1240	9.9938431	36	9.2293905	1277	0.7706095	30	
38	0	9.2196059	1240	9.9938324	36	9.2297735	1276	0.7702265	0	22
	30	9.2197278	1238	9.9938216	36	9.2301562	1275	0.7698438	30	
39	0	9.2198495	1238	9.9938109	35	9.2305386	1274	0.7694614	0	21
	30	9.2199708	1237	9.9938002	36	9.2309207	1272	0.7690793	30	
40	0	9.2200918	1236	9.9937894	36	9.2313024	1272	0.7686976	0	20
	30	9.2202125	1235	9.9937786	36	9.2316838	1271	0.7683162	30	
41	0	9.2203328	1234	9.9937679	36	9.2320650	1269	0.7679350	0	19
	30	9.2204528	1233	9.9937571	36	9.2324458	1268	0.7675542	30	
42	0	9.2205725	1232	9.9937463	36	9.2328262	1268	0.7671738	0	18
	30	9.2206919	1231	9.9937355	36	9.2332064	1267	0.7667936	30	
43	0	9.2208110	1229	9.9937247	36	9.2335863	1265	0.7664137	0	17
	30	9.2209297	1228	9.9937139	36	9.2339658	1265	0.7660342	30	
44	0	9.2210481	1227	9.9937030	37	9.2343451	1263	0.7656549	0	16
	30	9.2211662	1226	9.9936922	36	9.2347240	1262	0.7652760	30	
45	0	9.2212839	1225	9.9936813	36	9.2351026	1261	0.7648974	0	15
	30	9.2214014	1224	9.9936705	36	9.2354809	1260	0.7645191	30	
46	0	9.2215185	1223	9.9936596	36	9.2358589	1259	0.7641411	0	14
	30	9.2216353	1222	9.9936487	36	9.2362366	1258	0.7637634	30	
47	0	9.2217518	1221	9.9936378	36	9.2366139	1258	0.7633861	0	13
	30	9.2218679	1220	9.9936269	36	9.2369910	1256	0.7630090	30	
48	0	9.2219838	1219	9.9936160	36	9.2373678	1255	0.7626322	0	12
	30	9.2221493	1218	9.9936051	36	9.2377442	1254	0.7622558	30	
49	0	9.2222145	1217	9.9935942	36	9.2381203	1254	0.7618797	0	11
	30	9.2223294	1216	9.9935833	37	9.2384962	1252	0.7615038	30	
50	0	9.2224440	1215	9.9935723	36	9.2388717	1251	0.7611283	0	10
	30	9.2225583	1213	9.9935614	37	9.2392469	1250	0.7607531	30	
51	0	9.2226722	1213	9.9935504	37	9.2396218	1249	0.7603782	0	9
	30	9.2227859	1212	9.9935394	36	9.2399964	1249	0.7600036	30	
52	0	9.2228992	1210	9.9935285	37	9.2403708	1247	0.7596292	0	8
	30	9.2230122	1210	9.9935175	37	9.2407448	1246	0.7592552	30	
53	0	9.2231249	1209	9.9935065	37	9.2411185	1245	0.7588815	0	7
	30	9.2232373	1207	9.9934955	37	9.2414919	1244	0.7585081	30	
54	0	9.2233494	1206	9.9934844	36	9.2418650	1243	0.7581350	0	6
	30	9.2234612	1205	9.9934734	37	9.2422378	1242	0.7577622	30	
55	0	9.2235726	1204	9.9934624	37	9.2426103	1240	0.7573897	0	5
	30	9.2236838	1203	9.9934513	37	9.2429824	1240	0.7570176	30	
56	0	9.2237946	1202	9.9934403	37	9.2433543	1239	0.7566457	0	4
	30	9.2239051	1201	9.9934292	37	9.2437259	1238	0.7562741	30	
57	0	9.2240153	1201	9.9934181	37	9.2440972	1237	0.7559028	0	3
	30	9.2241253	1199	9.9934070	37	9.2444682	1236	0.7555318	30	
58	0	9.2242349	1198	9.9933959	37	9.2448389	1235	0.7551611	0	2
	30	9.2243442	1197	9.9933848	37	9.2452093	1234	0.7547907	30	
59	0	9.2244532	1196	9.9933737	37	9.2455794	1233	0.7544206	0	1
	30	9.2245618	1195	9.9933626	37	9.2459493	1232	0.7540507	30	
60	0	9.2246702		9.9933515		9.2463188		0.7536812	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.2396702	1194	9.9933515	38	9.2463188	1231	0.7536812	0	60
	30	9.2400283	1193	9.9933403	37	9.2466880	1230	0.7533120	30	
1	0	9.2403861	1192	9.9933292	38	9.2470569	1229	0.7529431	0	59
	30	9.2407436	1190	9.9933180	37	9.2474255	1229	0.7525745	30	
2	0	9.2411007	1190	9.9933068	37	9.2477939	1227	0.7522061	0	58
	30	9.2414576	1189	9.9932957	38	9.2481619	1226	0.7518381	30	
3	0	9.2418141	1188	9.9932845	38	9.2485297	1225	0.7514703	0	57
	30	9.2421704	1187	9.9932733	38	9.2488971	1225	0.7511029	30	
4	0	9.2425264	1185	9.9932621	38	9.2492643	1223	0.7507357	0	56
	30	9.2428820	1185	9.9932508	37	9.2496312	1222	0.7503688	30	
5	0	9.2432374	1184	9.9932396	37	9.2499978	1221	0.7500022	0	55
	30	9.2435924	1183	9.9932284	38	9.2503641	1220	0.7496359	30	
6	0	9.2439472	1182	9.9932171	37	9.2507301	1219	0.7492699	0	54
	30	9.2443017	1180	9.9932059	38	9.2510958	1218	0.7489042	30	
7	0	9.2446558	1180	9.9931946	38	9.2514612	1218	0.7485388	0	53
	30	9.2450097	1179	9.9931833	37	9.2518264	1216	0.7481736	30	
8	0	9.2453632	1178	9.9931720	37	9.2521912	1216	0.7478088	0	52
	30	9.2457165	1177	9.9931607	37	9.2525558	1214	0.7474442	30	
9	0	9.2460695	1176	9.9931494	37	9.2529200	1214	0.7470800	0	51
	30	9.2464222	1175	9.9931381	37	9.2532840	1213	0.7467160	30	
10	0	9.2467746	1173	9.9931268	38	9.2536477	1212	0.7463523	0	50
	30	9.2471266	1173	9.9931155	38	9.2540112	1210	0.7459888	30	
11	0	9.2474784	1172	9.9931041	37	9.2543743	1210	0.7456257	0	49
	30	9.2478299	1171	9.9930928	38	9.2547371	1209	0.7452629	30	
12	0	9.2481811	1170	9.9930814	38	9.2550997	1208	0.7449003	0	48
	30	9.2485321	1169	9.9930701	38	9.2554620	1207	0.7445380	30	
13	0	9.2488827	1168	9.9930587	38	9.2558240	1206	0.7441760	0	47
	30	9.2492330	1167	9.9930473	38	9.2561857	1205	0.7438143	30	
14	0	9.2495830	1167	9.9930359	38	9.2565472	1204	0.7434528	0	46
	30	9.2499328	1165	9.9930245	38	9.2569083	1203	0.7430917	30	
15	0	9.2502822	1165	9.9930131	38	9.2572692	1202	0.7427308	0	45
	30	9.2506314	1163	9.9930016	38	9.2576298	1201	0.7423702	30	
16	0	9.2509803	1162	0.9929902	38	9.2579901	1200	0.7420099	0	44
	30	9.2513289	1161	9.9929788	39	9.2583501	1200	0.7416499	30	
17	0	9.2516772	1160	9.9929673	38	9.2587099	1198	0.7412901	0	43
	30	9.2520252	1159	9.9929558	38	9.2590693	1198	0.7409307	30	
18	0	9.2523729	1158	9.9929444	39	9.2594285	1197	0.7405715	0	42
	30	9.2527203	1158	9.9929329	39	9.2597875	1195	0.7402125	30	
19	0	9.2530675	1156	9.9929214	39	9.2601461	1195	0.7398539	0	41
	30	9.2534143	1156	9.9929099	39	9.2605045	1194	0.7394955	30	
20	0	9.2537609	1155	9.9928984	39	9.2608625	1193	0.7391375	0	40
	30	9.2541072	1154	9.9928868	38	9.2612204	1192	0.7387796	30	
21	0	9.2544532	1153	9.9928753	38	9.2615779	1191	0.7384221	0	39
	30	9.2547989	1152	9.9928638	39	9.2619352	1190	0.7380648	30	
22	0	9.2551444	1150	9.9928522	38	9.2622921	1190	0.7377079	0	38
	30	9.2554895	1150	9.9928407	39	9.2626489	1188	0.7373511	30	
23	0	9.2558344	1149	9.9928291	39	9.2630053	1187	0.7369947	0	37
	30	9.2561790	1148	9.9928175	39	9.2633615	1186	0.7366385	30	
24	0	9.2565233	1147	9.9928059	38	9.2637173	1186	0.7362827	0	36
	30	9.2568673	1146	9.9927943	38	9.2640730	1184	0.7359270	30	
25	0	9.2572110	1145	9.9927827	39	9.2644283	1184	0.7355717	0	35
	30	9.2575545	1144	9.9927711	39	9.2647834	1183	0.7352166	30	
26	0	9.2578977	1143	9.9927595	39	9.2651382	1182	0.7348618	0	34
	30	9.2582406	1142	9.9927478	38	9.2654927	1181	0.7345073	30	
27	0	9.2585832	1141	9.9927362	39	9.2658470	1180	0.7341530	0	33
	30	9.2589255	1141	9.9927245	38	9.2662010	1179	0.7337990	30	
28	0	9.2592676	1139	9.9927129	39	9.2665547	1179	0.7334453	0	32
	30	9.2596094	1138	9.9927012	39	9.2669082	1177	0.7330918	30	
29	0	9.2599509	1137	9.9926895	39	9.2672613	1177	0.7327387	0	31
	30	9.2602921	1137	9.9926778	39	9.2676143	1175	0.7323857	30	
30	0	9.2606330		9.9926661		9.2679669		0.7320331	0	30
			10″		10″		10″			
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.2606330	1136	9.9926661	39	9.2679669	1175	0.7320331	0	30
	30	9.2607737	1135	9.9926544	39	9.2683193	1174	0.7316807	30	
31	0	9.2613141	1134	9.9926427	39	9.2686714	1173	0.7313286	0	29
	30	9.2616542	1133	9.9926310	40	9.2690233	1172	0.7309767	30	
32	0	9.2619941	1132	9.9926192	39	9.2693749	1171	0.7306261	0	28
	30	9.2623336	1132	9.9926075	40	9.2697262	1170	0.7302738	30	
33	0	9.2626729	1131	9.9925957	39	9.2700772	1170	0.7299228	0	27
	30	9.2630120	1129	9.9925839	39	9.2704280	1169	0.7295720	30	
34	0	9.2633507	1129	9.9925722	40	9.2707786	1167	0.7292214	0	26
	30	9.2636892	1128	9.9925604	40	9.2711288	1167	0.7288712	30	
35	0	9.2640274		9.9925486	40	9.2714788		0.7285212	0	25
	30	9.2643653	1127	9.9925368	40	9.2718286	1166	0.7281714	30	
36	0	9.2647030	1126	9.9925250	40	9.2721780	1165	0.7278220	0	24
	30	9.2650404	1125	9.9925131	40	9.2725272	1165	0.7274728	30	
37	0	9.2653775	1124	9.9925013	40	9.2728762	1164	0.7271238	0	23
	30	9.2657143	1123	9.9924894	39	9.2732249	1162	0.7267751	30	
38	0	9.2660509	1122	9.9924776	40	9.2735733	1162	0.7264267	0	22
	30	9.2663872	1121	9.9924657	39	9.2739215	1161	0.7260785	30	
39	0	9.2667232	1120	9.9924539	40	9.2742694	1160	0.7257306	0	21
	30	9.2670590	1120	9.9924420	40	9.2746170	1159	0.7253830	30	
40	0	9.2673945	1119	9.9924301	40	9.2749644	1158	0.7250356	0	20
	30	9.2677297	1118	9.9924182	40	9.2753116	1156	0.7246884	30	
41	0	9.2680647	1117	9.9924063	40	9.2756584	1156	0.7243416	0	19
	30	9.2683994	1115	9.9923943	39	9.2760050	1155	0.7239950	30	
42	0	9.2687338	1115	9.9923824	40	9.2763514	1154	0.7236486	0	18
	30	9.2690680	1114	9.9923705	40	9.2766975	1153	0.7233025	30	
43	0	9.2694019	1113	9.9923585	40	9.2770434	1152	0.7229566	0	17
	30	9.2697355	1112	9.9923466	40	9.2773889	1152	0.7226111	30	
44	0	9.2700689	1112	9.9923346	40	9.2777343	1150	0.7222657	0	16
	30	9.2704020	1110	9.9923226	40	9.2780793	1150	0.7219207	30	
45	0	9.2707348	1109	9.9923106	40	9.2784242	1149	0.7215758	0	15
	30	9.2710674	1108	9.9922986	40	9.2787687	1148	0.7212313	30	
46	0	9.2713997	1107	9.9922866	40	9.2791131	1147	0.7208869	0	14
	30	9.2717317	1106	9.9922746	40	9.2794571	1146	0.7205429	30	
47	0	9.2720635	1105	9.9922626	40	9.2798009	1146	0.7201991	0	13
	30	9.2723950	1105	9.9922506	41	9.2801445	1144	0.7198555	30	
48	0	9.2727263	1103	9.9922385	40	9.2804878	1144	0.7195122	0	12
	30	9.2730573	1102	9.9922265	41	9.2808308	1143	0.7191692	30	
49	0	9.2733880	1102	9.9922144	40	9.2811736	1142	0.7188264	0	11
	30	9.2737185	1101	9.9922023	40	9.2815162	1141	0.7184838	30	
50	0	9.2740487	1100	9.9921902	40	9.2818585	1140	0.7181415	0	10
	30	9.2743786	1100	9.9921781	40	9.2822005	1140	0.7177995	30	
51	0	9.2747083	1099	9.9921660	40	9.2825423	1139	0.7174577	0	9
	30	9.2750378	1097	9.9921539	40	9.2828838	1138	0.7171162	30	
52	0	9.2753669	1097	9.9921418	40	9.2832251	1137	0.7167749	0	8
	30	9.2756959	1095	9.9921297	41	9.2835662	1136	0.7164338	30	
53	0	9.2760245	1095	9.9921175	40	9.2839070	1136	0.7160930	0	7
	30	9.2763529	1094	9.9921054	41	9.2842475	1135	0.7157526	30	
54	0	9.27668.1	1093	9.9920932	40	9.2845879	1134	0.7154122	0	6
	30	9.2770089	1093	9.9920811	41	9.2849279	1133	0.7150721	30	
55	0	9.2773366	1091	9.9920689	41	9.2852677	1132	0.7147323	0	5
	30	9.2776640	1090	9.9920567	41	9.2856073	1131	0.7143927	30	
56	0	9.2779911	1090	9.9920445	41	9.2859465	1130	0.7140534	0	4
	30	9.2783179	1087	9.9920323	41	9.2862856	1130	0.7137144	30	
57	0	9.2786445	1088	9.9920201	41	9.2866245	1128	0.7133755	0	3
	30	9.2789709	1087	9.9920078	40	9.2869630	1128	0.7130370	30	
58	0	9.2792970	1086	9.9919956	41	9.2873014	1127	0.7126986	0	2
	30	9.2796228	1086	9.9919834	41	9.2876395	1126	0.7123605	30	
59	0	9.2799484	1085	9.9919711	41	9.2879773	1126	0.7120227	0	1
	30	9.2802738	1083	9.9919588	40	9.2883149	1125	0.7116851	30	
60	0	9.2805988		9.9919466		9.2886523		0.7113477	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.2805988		9.9919466		9.2886522		0.7113477	0	60
	30	9.2809237	1084	9.9919343	41	9.2889894	1124	0.7110106	30	
1	0	9.2812483	1082	9.9919220	41	9.2893263	1123	0.7106737	0	59
	30	9.2815726	1081	9.9919097	41	9.2896629	1122	0.7103371	30	
2	0	9.2818967	1080	9.9918974	41	9.2899993	1121	0.7100007	0	58
	30	9.2822205	1079	9.9918851	41	9.2903354	1121	0.7096646	30	
3	0	9.2825441	1079	9.9918727	41	9.2906713	1120	0.7093287	0	57
	30	9.2828674	1078	9.9918604	41	9.2910070	1119	0.7089930	30	
4	0	9.2831905	1077	9.9918480	41	9.2913424	1118	0.7086576	0	56
	30	9.2835133	1076	9.9918357	41	9.2916776	1118	0.7083224	30	
5	0	9.2838359	1076	9.9918233	41	9.2920126	1117	0.7079874	0	55
	30	9.2841582	1074	9.9918109	41	9.2923473	1116	0.7076527	30	
6	0	9.2844803	1074	9.9917985	41	9.2926817	1115	0.7073183	0	54
	30	9.2848021	1073	9.9917862	42	9.2930160	1115	0.7069840	30	
7	0	9.2851237	1072	9.9917737	42	9.2933500	1113	0.7066500	0	53
	30	9.2854450	1071	9.9917613	41	9.2936837	1112	0.7063163	30	
8	0	9.2857661	1071	9.9917489	41	9.2940172	1112	0.7059828	0	52
	30	9.2860870	1070	9.9917365	42	9.2943505	1111	0.7056495	30	
9	0	9.2864076	1069	9.9917240	41	9.2946836	1109	0.7053164	0	51
	30	9.2867279	1068	9.9917116	42	9.2950164	1109	0.7049836	30	
10	0	9.2870480	1067	9.9916991	42	9.2953489	1108	0.7046511	0	50
	30	9.2873679	1066	9.9916866	41	9.2956813	1107	0.7043187	30	
11	0	9.2876875	1065	9.9916741	41	9.2960134	1106	0.7039866	0	49
	30	9.2880069	1064	9.9916617	42	9.2963453	1105	0.7036547	30	
12	0	9.2883260	1064	9.9916492	42	9.2966769	1105	0.7033231	0	48
	30	9.2886449	1063	9.9916366	41	9.2970083	1104	0.7029917	30	
13	0	9.2889636	1061	9.9916241	42	9.2973395	1103	0.7026605	0	47
	30	9.2892820	1061	9.9916116	42	9.2976704	1102	0.7023296	30	
14	0	9.2896001	1060	9.9915990	41	9.2980011	1102	0.7019989	0	46
	30	9.2899181	1059	9.9915865	42	9.2983316	1101	0.7016684	30	
15	0	9.2902357	1059	9.9915739	41	9.2986618	1100	0.7013382	0	45
	30	9.2905532	1057	9.9915614	42	9.2989918	1099	0.7010082	30	
16	0	9.2908704	1056	9.9915488	42	9.2993216	1098	0.7006784	0	44
	30	9.2911873	1056	9.9915362	42	9.2996511	1098	0.7003489	30	
17	0	9.2915040	1055	9.9915236	42	9.2999804	1097	0.7000196	0	43
	30	9.2918205	1054	9.9915110	42	9.3003095	1096	0.6996905	30	
18	0	9.2921367	1054	9.9914984	42	9.3006383	1096	0.6993617	0	42
	30	9.2924527	1053	9.9914858	42	9.3009670	1094	0.6990330	30	
19	0	9.2927685	1052	9.9914731	42	9.3012954	1094	0.6987046	0	41
	30	9.2930840	1051	9.9914605	42	9.3016235	1093	0.6983765	30	
20	0	9.2933993	1050	9.9914478	42	9.3019514	1093	0.6980486	0	40
	30	9.2937143	1050	9.9914352	43	9.3022791	1092	0.6977209	30	
21	0	9.2940291	1049	9.9914225	42	9.3026066	1091	0.6973934	0	39
	30	9.2943437	1048	9.9914098	42	9.3029339	1090	0.6970661	30	
22	0	9.2946580	1047	9.9913971	42	9.3032609	1090	0.6967391	0	38
	30	9.2949721	1046	9.9913844	42	9.3035877	1089	0.6964123	30	
23	0	9.2952859	1046	9.9913717	43	9.3039143	1088	0.6960857	0	37
	30	9.2955996	1045	9.9913590	43	9.3042406	1087	0.6957594	30	
24	0	9.2959129	1045	9.9913462	42	9.3045667	1087	0.6954333	0	36
	30	9.2962261	1043	9.9913335	43	9.3048926	1086	0.6951074	30	
25	0	9.2965390	1043	9.9913207	42	9.3052183	1085	0.6947817	0	35
	30	9.2968517	1042	9.9913080	43	9.3055437	1084	0.6944563	30	
26	0	9.2971641	1041	9.9912952	42	9.3058689	1084	0.6941311	0	34
	30	9.2974763	1041	9.9912824	42	9.3061939	1083	0.6938061	30	
27	0	9.2977883	1040	9.9912696	42	9.3065187	1082	0.6934813	0	33
	30	9.2981001	1038	9.9912568	42	9.3068432	1082	0.6931568	30	
28	0	9.2984116	1038	9.9912440	42	9.3071675	1081	0.6928325	0	32
	30	9.2987229	1037	9.9912312	43	9.3074916	1080	0.6925084	30	
29	0	9.2990339	1036	9.9912184	43	9.3078155	1079	0.6921845	0	31
	30	9.2993447	1036	9.9912056	43	9.3081392	1078	0.6918608	30	
30	0	9.2996553		9.9911927		9.3084626		0.6915374	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.2996553	1035	9.9911927	43	9.3084626	1078	0.6915374	0	30
	30	9.2997587	1034	9.9911799	43	9.3087858	1077	0.6912142	30	
31	0	9.3002758	1033	9.9911670	43	9.3091088	1076	0.6908912	0	29
	30	9.3003837	1032	9.9911541	43	9.3094316	1075	0.6905684	30	
32	0	9.3008953	1032	9.9911412	42	9.3097541	1075	0.6902459	0	28
	30	9.3012048	1031	9.9911283	43	9.3100764	1074	0.6899236	30	
33	0	9.3015140	1030	9.9911154	43	9.3103985	1074	0.6896015	0	27
	30	9.3018229	1030	9.9911025	43	9.3107204	1073	0.6892796	30	
34	0	9.3021317	1029	9.9910896	43	9.3110421	1072	0.6889579	0	26
	30	9.3024402	1028	9.9910767	44	9.3113635	1071	0.6886365	30	
35	0	9.3027485	1027	9.9910637	43	9.3116848	1070	0.6883152	0	25
	30	9.3030566	1026	9.9910508	44	9.3120058	1069	0.6879942	30	
36	0	9.3033644	1025	9.9910378	43	9.3123266	1069	0.6876734	0	24
	30	9.3036720	1025	9.9910248	43	9.3126472	1068	0.6873528	30	
37	0	9.3039794	1024	9.9910119	44	9.3129675	1068	0.6870325	0	23
	30	9.3042865	1024	9.9909989	44	9.3132877	1066	0.6867123	30	
38	0	9.3045934	1023	9.9909859	44	9.3136076	1066	0.6863924	0	22
	30	9.3049001	1022	9.9909729	44	9.3139273	1065	0.6860727	30	
39	0	9.3052066	1021	9.9909598	43	9.3142468	1064	0.6857532	0	21
	30	9.3055129	1020	9.9909468	43	9.3145661	1063	0.6854339	30	
40	0	9.3058189	1020	9.9909338	44	9.3148851	1063	0.6851149	0	20
	30	9.3061247	1019	9.9909207	43	9.3152040	1062	0.6847960	30	
41	0	9.3064303	1018	9.9909077	44	9.3155226	1062	0.6844774	0	19
	30	9.3067356	1017	9.9908946	44	9.3158410	1061	0.6841590	03	
42	0	9.3070407	1017	9.9908815	43	9.3161592	1060	0.6838408	0	18
	30	9.3073456	1016	9.9908684	43	9.3164772	1060	0.6835228	30	
43	0	9.3076503	1015	9.9908553	43	9.3167950	1059	0.6832050	0	17
	30	9.3079548	1014	9.9908422	43	9.3171125	1059	0.6828875	30	
44	0	9.3082590	1014	9.9908291	44	9.3174299	1057	0.6825701	0	16
	30	9.3085630	1013	9.9908160	44	9.3177470	1057	0.6822530	30	
45	0	9.3088668	1012	9.9908029	44	9.3180640	1056	0.6819360	0	15
	30	9.3091704	1011	9.9907897	44	9.3183807	1055	0.6816193	30	
46	0	9.3094737	1011	9.9907766	44	9.3186972	1054	0.6813028	0	14
	30	9.3097769	1010	9.9907634	44	9.3190135	1053	0.6809865	30	
47	0	9.3100798	1009	9.9907502	44	9.3193295	1054	0.6806705	0	13
	30	9.3103825	1008	9.9907371	44	9.3196454	1053	0.6803546	30	
48	0	9.3106849	1008	9.9907239	44	9.3199611	1051	0.6800389	0	12
	30	9.3109872	1007	9.9907107	44	9.3202765	1051	0.6797235	30	
49	0	9.3112892	1006	9.9906974	44	9.3205918	1050	0.6794082	0	11
	30	9.3115910	1006	9.9906842	44	9.3209068	1049	0.6790932	30	
50	0	9.3118926	1005	9.9906710	44	9.3212216	1049	0.6787784	0	10
	30	9.3121940	1004	9.9906578	45	9.3215362	1048	0.6784638	30	
51	0	9.3124951	1004	9.9906445	44	9.3218506	1048	0.6781494	0	9
	30	9.3127961	1002	9.9906313	45	9.3221648	1047	0.6778352	30	
52	0	9.3130968	1002	9.9906180	44	9.3224788	1046	0.6775212	0	8
	30	9.3133973	1001	9.9906047	44	9.3227926	1045	0.6772074	30	
53	0	9.3136976	1000	9.9905914	44	9.3231061	1045	0.6768939	0	7
	30	9.3139976	1000	9.9905781	44	9.3234195	1044	0.6765805	30	
54	0	9.3142975	999	9.9905648	44	9.3237327	1043	0.6762673	0	6
	30	9.3145974	998	9.9905515	44	9.3240456	1043	0.6759544	30	
55	0	9.3148965	998	9.9905382	45	9.3243584	1042	0.6756416	0	5
	30	9.3151957	997	9.9905248	44	9.3246709	1041	0.6753291	30	
56	0	9.3154947	996	9.9905115	45	9.3249832	1041	0.6750168	0	4
	30	9.3157935	995	9.9904981	44	9.3252953	1040	0.6747047	30	
57	0	9.3160921	994	9.9904848	45	9.3256073	1039	0.6743927	0	3
	30	9.3163904	994	9.9904714	45	9.3259190	1038	0.6740810	30	
58	0	9.3166885	994	9.9904580	44	9.3262305	1038	0.6737695	0	2
	30	9.3169864	993	9.9904446	44	9.3265418	1037	0.6734582	30	
59	0	9.3172841	992	9.9904312	44	9.3268529	1037	0.6731471	0	1
	30	9.3175816	991	9.9904178	45	9.3271638	1036	0.6728362	30	
60	0	9.3178789		9.9904044		9.3274745		0.6725255	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.3178789	991	9.9904044	45	9.3274745	1035	0.6725255	0	60
	30	9.3181760	989	9.9903910	45	9.3277850	1035	0.6722150	30	
1	0	9.3184728	989	9.9903775	45	9.3280953	1034	0.6719047	0	59
	30	9.3187695	988	9.9903641	45	9.3284054	1033	0.6715946	30	
2	0	9.3190659	988	9.9903506	45	9.3287153	1032	0.6712847	0	58
	30	9.3193621	987	9.9903371	44	9.3290250	1032	0.6709750	30	
3	0	9.3196581	986	9.9903237	45	9.3293345	1031	0.6706655	0	57
	30	9.3199539	986	9.9903102	45	9.3296437	1031	0.6703563	30	
4	0	9.3202495	985	9.9902967	45	9.3299528	1030	0.6700472	0	56
	30	9.3205449	984	9.9902832	45	9.3302617	1029	0.6697383	30	
5	0	9.3208400	984	9.9902697	46	9.3305704	1028	0.6694296	0	55
	30	9.3211350	983	9.9902561	46	9.3308789	1028	0.6691211	30	
6	0	9.3214297	982	9.9902426	45	9.3311872	1027	0.6688128	0	54
	30	9.3217243	981	9.9902290	45	9.3314952	1027	0.6685048	30	
7	0	9.3220186	981	9.9902155	45	9.3318031	1026	0.6681969	0	53
	30	9.3223127	980	9.9902019	45	9.3321108	1025	0.6678892	30	
8	0	9.3226066	980	9.9901883	45	9.3324183	1024	0.6675817	0	52
	30	9.3229003	979	9.9901748	46	9.3327256	1024	0.6672744	30	
9	0	9.3231938	978	9.9901612	46	9.3330327	1023	0.6669673	0	51
	30	9.3234871	977	9.9901476	46	9.3333396	1022	0.6666604	30	
10	0	9.3237802	976	9.9901339	45	9.3336463	1021	0.6663537	0	50
	30	9.3240731	976	9.9901203	45	9.3339528	1021	0.6660472	30	
11	0	9.3243657	976	9.9901067	46	9.3342591	1020	0.6657409	0	49
	30	9.3246582	974	9.9900930	45	9.3345652	1019	0.6654348	30	
12	0	9.3249505	973	9.9900794	46	9.3348711	1019	0.6651289	0	48
	30	9.3252425	973	9.9900657	45	9.3351768	1018	0.6648232	30	
13	0	9.3255344	972	9.9900521	46	9.3354823	1018	0.6645177	0	47
	30	9.3258260	972	9.9900384	46	9.3357876	1017	0.6642124	30	
14	0	9.3261174	971	9.9900247	46	9.3360927	1017	0.6639073	0	46
	30	9.3264087	970	9.9900110	46	9.3363977	1016	0.6636023	30	
15	0	9.3266997	969	9.9899973	46	9.3367024	1015	0.6632976	0	45
	30	9.3269905	969	9.9899836	46	9.3370069	1015	0.6629931	30	
16	0	9.3272811	968	9.9899698	45	9.3373113	1014	0.6626887	0	44
	30	9.3275715	968	9.9899561	46	9.3376154	1014	0.6623846	30	
17	0	9.3278617	967	9.9899423	46	9.3379194	1013	0.6620806	0	43
	30	9.3281518	966	9.9899286	46	9.3382232	1012	0.6617768	30	
18	0	9.3284416	965	9.9899148	46	9.3385267	1012	0.6614733	0	42
	30	9.3287312	964	9.9899010	45	9.3388301	1011	0.6611699	30	
19	0	9.3290206	964	9.9898873	46	9.3391333	1010	0.6608667	0	41
	30	9.3293098	963	9.9898735	46	9.3394363	1009	0.6605637	30	
20	0	9.3295988	962	9.9898597	46	9.3397391	1009	0.6602609	0	40
	30	9.3298875	963	9.9898458	46	9.3400417	1008	0.6599583	30	
21	0	9.3301761	962	9.9898320	46	9.3403441	1008	0.6596559	0	39
	30	9.3304645	961	9.9898182	45	9.3406464	1007	0.6593536	30	
22	0	9.3307527	960	9.9898043	46	9.3409484	1006	0.6590516	0	38
	30	9.3310407	960	9.9897905	46	9.3412502	1006	0.6587498	30	
23	0	9.3313285	959	9.9897766	46	9.3415519	1005	0.6584481	0	37
	30	9.3316161	958	9.9897627	46	9.3418534	1004	0.6581466	30	
24	0	9.3319035	958	9.9897489	47	9.3421546	1004	0.6578454	0	36
	30	9.3321907	957	9.9897350	47	9.3424557	1003	0.6575443	30	
25	0	9.3324777	956	9.9897211	47	9.3427566	1003	0.6572434	0	35
	30	9.3327645	955	9.9897072	47	9.3430573	1002	0.6569427	30	
26	0	9.3330511	955	9.9896932	46	9.3433578	1002	0.6566422	0	34
	30	9.3333375	954	9.9896793	46	9.3436582	1000	0.6563418	30	
27	0	9.3336237	953	9.9896654	47	9.3439583	1000	0.6560417	0	33
	30	9.3339097	953	9.9896514	46	9.3442583	999	0.6557417	30	
28	0	9.3341955	952	9.9896374	46	9.3445580	999	0.6554420	0	32
	30	9.3344811	952	9.9896235	47	9.3448576	998	0.6551424	30	
29	0	9.3347665	951	9.9896095	47	9.3451570	998	0.6548430	0	31
	30	9.3350517	951	9.9895955	47	9.3454562	997	0.6545438	30	
30	0	9.3353368		9.9895815		9.3457552		0.6542448	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.3353368	949	9.9895815	47	9.3457552	997	0.6542448	0	30
	30	9.3356216	949	9.9895575	47	9.3460541	995	0.6539459	30	
31	0	9.3359062	948	9.9895335	47	9.3463527	995	0.6536473	0	29
	30	9.3361906	948	9.9895095	47	9.3466512	994	0.6533488	30	
32	0	9.3364749	947	9.9894854	47	9.3469494	994	0.6530506	0	28
	30	9.3367589	946	9.9894114	47	9.3472475	994	0.6527525	30	
33	0	9.3370428	945	9.9894373	47	9.3475454	993	0.6524546	0	27
	30	9.3373264	945	9.9894133	47	9.3478432	992	0.6521568	30	
34	0	9.3376099	944	9.9893892	47	9.3481407	991	0.6518593	0	26
	30	9.3378931	944	9.9893651	47	9.3484380	991	0.6515620	30	
35	0	9.3381762	943	9.9893410	47	9.3487352	990	0.6512648	0	25
	30	9.3384591	942	9.9893169	47	9.3490322	989	0.6509678	30	
36	0	9.3387418	941	9.9892928	47	9.3493290	989	0.6506710	0	24
	30	9.3390243	941	9.9892687	48	9.3496256	988	0.6503744	30	
37	0	9.3393065	941	9.9892445	47	9.3499220	988	0.6500780	0	23
	30	9.3395887	939	9.9892204	47	9.3502183	987	0.6497817	30	
38	0	9.3398706	939	9.9891962	47	9.3505143	987	0.6494857	0	22
	30	9.3401523	939	9.9891721	48	9.3508102	986	0.6491898	30	
39	0	9.3404338	938	9.9891479	47	9.3511059	986	0.6488941	0	21
	30	9.3407152	937	9.9891237	47	9.3514014	985	0.6485986	30	
40	0	9.3409963	937	9.9892995	47	9.3516968	984	0.6483032	0	20
	30	9.3412773	936	9.9892753	47	9.3519919	984	0.6480081	30	
41	0	9.3415580	936	9.9892711	47	9.3522869	983	0.6477131	0	19
	30	9.3418386	936	9.9892269	48	9.3525817	982	0.6474183	03	
42	0	9.3421190	934	9.9892427	48	9.3528763	982	0.6471237	0	18
	30	9.3423992	933	9.9892284	47	9.3531708	981	0.6468292	30	
43	0	9.3426792	933	9.9892142	48	9.3534650	980	0.6465350	0	17
	30	9.3429590	932	9.9891999	48	9.3537591	980	0.6462409	30	
44	0	9.3432386	932	9.9891856	47	9.3540530	979	0.6459470	0	16
	30	9.3435180	931	9.9891714	48	9.3543467	978	0.6456533	30	
45	0	9.3437973	930	9.9891571	48	9.3546402	978	0.6453598	0	15
	30	9.3440763	930	9.9891428	48	9.3549336	977	0.6450664	30	
46	0	9.3443552	929	9.9891285	48	9.3552267	977	0.6447733	0	14
	30	9.3446339	928	9.9891141	47	9.3555197	977	0.6444803	30	
47	0	9.3449124	928	9.9890998	48	9.3558126	975	0.6441874	0	13
	30	9.3451907	927	9.9890855	48	9.3561052	975	0.6438948	30	
48	0	9.3454688	927	9.9890711	47	9.3563977	974	0.6436023	0	12
	30	9.3457467	926	9.9890568	48	9.3566900	973	0.6433100	30	
49	0	9.3460245	925	9.9890424	48	9.3569821	973	0.6430179	0	11
	30	9.3463020	925	9.9890280	48	9.3572740	973	0.6427260	30	
50	0	9.3465794	924	9.9890137	48	9.3575658	972	0.6424342	0	10
	30	9.3468566	923	9.9889993	48	9.3578573	972	0.6421427	30	
51	0	9.3471336	923	9.9889849	48	9.3581487	971	0.6418513	0	9
	30	9.3474104	922	9.9889704	48	9.3584400	970	0.6415600	30	
52	0	9.3476870	922	9.9889560	48	9.3587310	970	0.6412690	0	8
	30	9.3479635	921	9.9889416	48	9.3590219	969	0.6409781	30	
53	0	9.3482397	921	9.9889271	48	9.3593126	968	0.6406874	0	7
	30	9.3485158	920	9.9889127	48	9.3596031	968	0.6403969	30	
54	0	9.3487917	919	9.9888982	48	9.3598935	967	0.6401065	0	6
	30	9.3490674	919	9.9888838	49	9.3601836	967	0.6398164	30	
55	0	9.3493429	918	9.9888693	49	9.3604736	967	0.6395264	0	5
	30	9.3496183	917	9.9888548	48	9.3607635	965	0.6392365	30	
56	0	9.3498934	917	9.9888403	48	9.3610531	965	0.6389469	0	4
	30	9.3501684	916	9.9888258	49	9.3613426	964	0.6386574	30	
57	0	9.3504432	915	9.9888113	49	9.3616319	964	0.6383681	0	3
	30	9.3507178	915	9.9887967	48	9.3619210	964	0.6380790	30	
58	0	9.3509922	914	9.9887822	49	9.3622100	963	0.6377900	0	2
	30	9.3512664	914	9.9887676	48	9.3624988	962	0.6375012	30	
59	0	9.3515405	913	9.9887531	49	9.3627874	962	0.6372126	0	1
	30	9.3518143	913	9.9887385	48	9.3630758	961	0.6369242	30	
60	0	9.3520880		9.9887239		9.3633641		0.6366359	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.3520880	912	9.9887239	48	9.3633641	961	0.6366359	0	60
	30	9.3523615	912	9.9887093	48	9.3636522	960	0.6363478	30	
1	0	9.3526349	910	9.9886947	48	9.3639401	960	0.6360599	0	59
	30	9.3529080	910	9.9886801	48	9.3642279	959	0.6357721	30	
2	0	9.3531810	909	9.9886655	49	9.3645155	958	0.6354845	0	58
	30	9.3534538	909	9.9886509	49	9.3648029	957	0.6351971	30	
3	0	9.3537264	908	9.9886363	49	9.3650901	957	0.6349099	0	57
	30	9.3539988	908	9.9886216	49	9.3653772	956	0.6346228	30	
4	0	9.3542710	908	9.9886070	49	9.3656641	956	0.6343359	0	56
	30	9.3545431	907	9.9885923	49	9.3659508	956	0.6340492	30	
5	0	9.3548150	906	9.9885776	49	9.3662374	955	0.6337626	0	55
	30	9.3550867	905	9.9885629	49	9.3665238	954	0.6334762	30	
6	0	9.3553582	905	9.9885482	49	9.3668100	954	0.6331900	0	54
	30	9.3556296	904	9.9885335	49	9.3670960	954	0.6329040	30	
7	0	9.3559007	904	9.9885188	49	9.3673819	953	0.6326181	0	53
	30	9.3561717	903	9.9885041	49	9.3676676	952	0.6323324	30	
8	0	9.3564426	902	9.9884894	49	9.3679532	952	0.6320468	0	52
	30	9.3567132	902	9.9884746	49	9.3682386	951	0.6317614	30	
9	0	9.3569836	902	9.9884599	49	9.3685238	951	0.6314762	0	51
	30	9.3572539	901	9.9884451	49	9.3688088	950	0.6311912	30	
10	0	9.3575240	900	9.9884303	49	9.3690937	949	0.6309063	0	50
	30	9.3577940	899	9.9884156	50	9.3693784	949	0.6306216	30	
11	0	9.3580637	899	9.9884008	50	9.3696629	948	0.6303371	0	49
	30	9.3583333	898	9.9883860	50	9.3699473	948	0.6300527	30	
12	0	9.3586027	897	9.9883712	50	9.3702315	947	0.6297685	0	48
	30	9.3588719	897	9.9883563	49	9.3705156	946	0.6294844	30	
13	0	9.3591409	897	9.9883415	49	9.3707994	946	0.6292006	0	47
	30	9.3594098	896	9.9883267	50	9.3710831	946	0.6289169	30	
14	0	9.3596785	895	9.9883118	49	9.3713667	945	0.6286333	0	46
	30	9.3599470	895	9.9882970	50	9.3716501	944	0.6283499	30	
15	0	9.3602154	894	9.9882821	50	9.3719333	943	0.6280667	0	45
	30	9.3604836	894	9.9882672	50	9.3722163	943	0.6277837	30	
16	0	9.3607515	893	9.9882523	50	9.3724992	942	0.6275008	0	44
	30	9.3610193	893	9.9882374	49	9.3727819	942	0.6272181	30	
17	0	9.3612870	892	9.9882225	50	9.3730645	941	0.6269355	0	43
	30	9.3615544	892	9.9882076	50	9.3733468	941	0.6266532	30	
18	0	9.3618217	891	9.9881927	50	9.3736291	940	0.6263709	0	42
	30	9.3620889	890	9.9881777	50	9.3739111	940	0.6260889	30	
19	0	9.3623558	890	9.9881628	49	9.3741930	940	0.6258070	0	41
	30	9.3626226	889	9.9881478	50	9.3744748	938	0.6255252	30	
20	0	9.3628892	888	9.9881329	50	9.3747563	938	0.6252437	0	40
	30	9.3631556	888	9.9881179	50	9.3750377	938	0.6249623	30	
21	0	9.3634219	887	9.9881029	50	9.3753190	937	0.6246810	0	39
	30	9.3636880	886	9.9880879	50	9.3756001	936	0.6243999	30	
22	0	9.3639539	886	9.9880729	50	9.3758810	936	0.6241190	0	38
	30	9.3642196	886	9.9880579	50	9.3761617	936	0.6238383	30	
23	0	9.3644852	885	9.9880429	50	9.3764423	935	0.6235577	0	37
	30	9.3647506	884	9.9880278	50	9.3767228	934	0.6232772	30	
24	0	9.3650158	884	9.9880128	50	9.3770030	934	0.6229970	0	36
	30	9.3652809	883	9.9879977	50	9.3772831	934	0.6227169	30	
25	0	9.3655458	882	9.9879827	50	9.3775631	933	0.6224369	0	35
	30	9.3658105	882	9.9879676	50	9.3778429	933	0.6221571	30	
26	0	9.3660750	882	9.9879525	50	9.3781225	932	0.6218775	0	34
	30	9.3663394	881	9.9879374	50	9.3784020	931	0.6215980	30	
27	0	9.3666036	880	9.9879223	50	9.3786813	930	0.6213187	0	33
	30	9.3668676	880	9.9879072	50	9.3789604	930	0.6210396	30	
28	0	9.3671315	879	9.9878921	50	9.3792394	930	0.6207606	0	32
	30	9.3673952	878	9.9878770	51	9.3795182	929	0.6204818	30	
29	0	9.3676587	878	9.9878618	50	9.3797969	928	0.6202031	0	31
	30	9.3679221	877	9.9878467	51	9.3800754	928	0.6199246	30	
30	0	9.3681853		9.9878315		9.3803537		0.6196463	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.3681853	876	9.9878315	50	9.3803537	928	0.6196463	0	30
	30	9.3684483	876	9.9878163	50	9.3806319	927	0.6193681	30	
31	0	9.3687111	876	9.9878012	51	9.3809100	926	0.6190900	0	29
	30	9.3689738	875	9.9877860	51	9.3811878	926	0.6188122	30	
32	0	9.3692363	875	9.9877708	51	9.3814655	926	0.6185345	0	28
	30	9.3694987	874	9.9877556	51	9.3817431	925	0.6182569	30	
33	0	9.3697608	874	9.9877404	51	9.3820205	924	0.6179795	0	27
	30	9.3700229	873	9.9877251	51	9.3822977	924	0.6177023	30	
34	0	9.3702847	872	9.9877099	51	9.3825748	923	0.6174252	0	26
	30	9.3705464	872	9.9876946	50	9.3828517	923	0.6171483	30	
35	0	9.3708079	871	9.9876794	51	9.3831285	922	0.6168715	0	25
	30	9.3710692	871	9.9876641	51	9.3834051	922	0.6165949	30	
36	0	9.3713304	870	9.9876488	51	9.3836816	921	0.6163184	0	24
	30	9.3715914	870	9.9876336	51	9.3839579	920	0.6160421	30	
37	0	9.3718523	869	9.9876183	51	9.3842340	920	0.6157660	0	23
	30	9.3721130	868	9.9876030	52	9.3845100	920	0.6154900	30	
38	0	9.3723735	868	9.9875878	51	9.3847858	919	0.6152142	0	22
	30	9.3726338	868	9.9875725	51	9.3850615	919	0.6149385	30	
39	0	9.3728940	867	9.9875572	51	9.3853370	918	0.6146630	0	21
	30	9.3731540	867	9.9875416	51	9.3856124	917	0.6143876	30	
40	0	9.3734139	866	9.9875263	51	9.3858876	917	0.6141124	0	20
	30	9.3736736	865	9.9875109	51	9.3861627	916	0.6138373	30	
41	0	9.3739331	865	9.9874955	51	9.3864376	916	0.6135624	0	19
	30	9.3741925	864	9.9874802	52	9.3867123	915	0.6132877	30	
42	0	9.3744517	863	9.9874648	52	9.3869869	915	0.6130131	0	18
	30	9.3747107	863	9.9874494	52	9.3872613	915	0.6127387	30	
43	0	9.3749696	862	9.9874339	51	9.3875356	914	0.6124644	0	17
	30	9.3752283	862	9.9874185	51	9.3878097	914	0.6121903	30	
44	0	9.3754868	862	9.9874031	52	9.3880837	913	0.6119163	0	16
	30	9.3757452	861	9.9873877	52	9.3883575	913	0.6116425	30	
45	0	9.3760034	860	9.9873722	52	9.3886312	912	0.6113688	0	15
	30	9.3762615	859	9.9873567	51	9.3889047	912	0.6110953	30	
46	0	9.3765194	859	9.9873413	52	9.3891781	911	0.6108219	0	14
	30	9.3767771	859	9.9873258	52	9.3894513	910	0.6105487	30	
47	0	9.3770347	858	9.9873103	52	9.3897244	909	0.6102756	0	13
	30	9.3772921	857	9.9872948	52	9.3899973	909	0.6100027	30	
48	0	9.3775493	857	9.9872793	52	9.3902700	909	0.6097300	0	12
	30	9.3778064	856	9.9872638	52	9.3905426	909	0.6094574	30	
49	0	9.3780633	856	9.9872482	51	9.3908151	908	0.6091849	0	11
	30	9.3783201	855	9.9872327	52	9.3910874	907	0.6089126	30	
50	0	9.3785767	855	9.9872171	51	9.3913595	907	0.6086405	0	10
	30	9.3788331	855	9.9872016	52	9.3916315	907	0.6083685	30	
51	0	9.3790894	854	9.9871860	52	9.3919034	906	0.6080966	0	9
	30	9.3793455	853	9.9871704	52	9.3921751	905	0.6078249	30	
52	0	9.3796015	852	9.9871549	52	9.3924466	905	0.6075534	0	8
	30	9.3798573	852	9.9871393	52	9.3927180	904	0.6072820	30	
53	0	9.3801129	852	9.9871236	52	9.3929893	903	0.6070107	0	7
	30	9.3803684	851	9.9871080	52	9.3932604	903	0.6067396	30	
54	0	9.3806237	851	9.9870924	52	9.3935313	903	0.6064687	0	6
	30	9.3808789	850	9.9870768	52	9.3938021	902	0.6061979	30	
55	0	9.3811339	849	9.9870611	52	9.3940727	902	0.6059273	0	5
	30	9.3813887	849	9.9870455	53	9.3943432	902	0.6056568	30	
56	0	9.3816434	849	9.9870298	52	9.3946136	901	0.6053864	0	4
	30	9.3818979	848	9.9870141	52	9.3948838	900	0.6051162	30	
57	0	9.3821523	847	9.9869984	52	9.3951538	900	0.6048462	0	3
	30	9.3824065	847	9.9869827	52	9.3954238	899	0.6045762	30	
58	0	9.3826605	847	9.9869670	52	9.3956935	899	0.6043065	0	2
	30	9.3829144	846	9.9869513	52	9.3959631	899	0.6040369	30	
59	0	9.3831682	845	9.9869356	52	9.3962326	898	0.6037674	0	1
	30	9.3834218	844	9.9869199	53	9.3965019	897	0.6034981	30	
60	0	9.3836752		9.9869041		9.3967711		0.6032289	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
0	0	9.3836752	844	9.9869241	52	9.3967711	896	0.6032289	c	60
	30	9.3839284	844	9.9868884	53	9.3970401	896	0.6029599	30	
1	0	9.3841815	844	9.9868526	53	9.3973089	896	0.6026911	c	59
	30	9.3844345	843	9.9868168	52	9.3975777	895	0.6024223	30	
2	0	9.3846873	842	9.9868410	52	9.3978463	894	0.6021537	c	58
	30	9.3849399	842	9.9868253	53	9.3981147	894	0.6018853	30	
3	0	9.3851924	841	9.9868094	52	9.3983830	894	0.6016170	c	57
	30	9.3854447	841	9.9867936	52	9.3986511	894	0.6013489	30	
4	0	9.3856969	840	9.9867778	53	9.3989191	893	0.6010809	c	56
	30	9.3859489	840	9.9867620	53	9.3991869	893	0.6008131	30	
5	0	9.3862008	839	9.9867461	52	9.3994547	892	0.6005453	c	55
	30	9.3864525	839	9.9867303	53	9.3997222	892	0.6002778	30	
6	0	9.3867040	839	9.9867144	53	9.3999896	891	0.6000104	c	54
	30	9.3869554	838	9.9866986	53	9.4002569	890	0.5997431	30	
7	0	9.3872067	837	9.9866827	53	9.4005240	890	0.5994760	c	53
	30	9.3874578	836	9.9866668	53	9.4007910	889	0.5992090	30	
8	0	9.3877087	836	9.9866509	53	9.4010578	889	0.5989422	c	52
	30	9.3879595	835	9.9866350	53	9.4013245	889	0.5986755	30	
9	0	9.3882101	835	9.9866191	54	9.4015910	889	0.5984090	c	51
	30	9.3884606	834	9.9866031	53	9.4018574	888	0.5981426	30	
10	0	9.3887109	834	9.9865872	53	9.4021237	887	0.5978763	c	50
	30	9.3889611	833	9.9865712	53	9.4023898	887	0.5976102	30	
11	0	9.3892111	833	9.9865553	53	9.4026558	886	0.5973442	c	49
	30	9.3894609	833	9.9865393	53	9.4029216	886	0.5970784	30	
12	0	9.3897106	832	9.9865233	53	9.4031873	885	0.5968127	c	48
	30	9.3899602	831	9.9865073	53	9.4034528	885	0.5965472	30	
13	0	9.3902096	831	9.9864913	53	9.4037182	885	0.5962818	c	47
	30	9.3904588	831	9.9864753	53	9.4039835	884	0.5960165	30	
14	0	9.3907079	830	9.9864593	53	9.4042486	883	0.5957514	c	46
	30	9.3909569	829	9.9864433	54	9.4045136	883	0.5954864	30	
15	0	9.3912057	828	9.9864273	54	9.4047784	882	0.5952216	c	45
	30	9.3914543	828	9.9864112	53	9.4050431	882	0.5949569	30	
16	0	9.3917028	828	9.9863952	54	9.4053076	882	0.5946924	c	44
	30	9.3919511	828	9.9863791	54	9.4055720	881	0.5944280	30	
17	0	9.3921993	827	9.9863630	54	9.4058363	880	0.5941637	c	43
	30	9.3924473	827	9.9863469	53	9.4061004	880	0.5938996	30	
18	0	9.3926952	826	9.9863308	53	9.4063644	880	0.5936356	c	42
	30	9.3929430	825	9.9863147	53	9.4066282	879	0.5933718	30	
19	0	9.3931905	825	9.9862986	54	9.4068919	879	0.5931081	c	41
	30	9.3934380	824	9.9862825	53	9.4071555	878	0.5928445	30	
20	0	9.3936852	824	9.9862663	53	9.4074189	878	0.5925811	c	40
	30	9.3939324	823	9.9862502	54	9.4076822	877	0.5923178	30	
21	0	9.3941794	823	9.9862340	53	9.4079453	877	0.5920547	c	39
	30	9.3944262	822	9.9862179	54	9.4082083	876	0.5917917	30	
22	0	9.3946729	822	9.9862017	54	9.4084712	876	0.5915288	c	38
	30	9.3949194	822	9.9861855	54	9.4087339	875	0.5912661	30	
23	0	9.3951658	821	9.9861693	54	9.4089965	875	0.5910035	c	37
	30	9.3954120	821	9.9861531	54	9.4092589	875	0.5907411	30	
24	0	9.3956581	820	9.9861369	54	9.4095212	874	0.5904788	c	36
	30	9.3959041	819	9.9861207	54	9.4097834	873	0.5902166	30	
25	0	9.3961499	819	9.9861045	55	9.4100454	873	0.5899546	c	35
	30	9.3963955	818	9.9860882	54	9.4103073	872	0.5896927	30	
26	0	9.3966410	818	9.9860720	55	9.4105690	872	0.5894310	c	34
	30	9.3968863	818	9.9860557	54	9.4108306	872	0.5891694	30	
27	0	9.3971315	817	9.9860394	54	9.4110921	871	0.5889079	c	33
	30	9.3973766	816	9.9860231	54	9.4113534	871	0.5886466	30	
28	0	9.3976215	816	9.9860069	55	9.4116146	871	0.5883854	c	32
	30	9.3978663	815	9.9859906	55	9.4118757	870	0.5881243	30	
29	0	9.3981109	815	9.9859742	54	9.4121366	870	0.5878634	c	31
	30	9.3983553	815	9.9859579	54	9.4123974	869	0.5876026	30	
30	0	9.3985996		9.9859416		9.4126581		0.5873419	c	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.3985996	814	9.9869416	55	9.4126581	868	0.5873419	0	30
	30	9.3988438	814	9.9859253	55	9.4129186	868	0.5870814	30	
31	0	9.3990878	813	9.9849089	55	9.4131789	868	0.5868211	0	29
	30	9.3993317	813	9.9838925	54	9.4134392	867	0.5865608	30	
32	0	9.3995754	813	9.9828762	55	9.4136993	866	0.5863007	0	28
	30	9.3998190	812	9.9818598	55	9.4139592	867	0.5860408	30	
33	0	9.4000625	811	9.9808434	55	9.4142191	865	0.5857809	0	27
	30	9.4003058	810	9.9798270	55	9.4144788	865	0.5855212	30	
34	0	9.4005489	810	9.9788106	55	9.4147383	865	0.5852617	0	26
	30	9.4007919	810	9.9777942	55	9.4149977	865	0.5850023	30	
35	0	9.4010348	809	9.9767777	54	9.4152570	865	0.5847430	0	25
	30	9.4012775	809	9.9757613	55	9.4155162	863	0.5844838	30	
36	0	9.4015201	808	9.9747449	55	9.4157752	863	0.5842248	0	24
	30	9.4017625	808	9.9737284	55	9.4160341	862	0.5839659	30	
37	0	9.4020048	807	9.9727119	55	9.4162928	862	0.5837072	0	23
	30	9.4022469	807	9.9716955	55	9.4165514	862	0.5834486	30	
38	0	9.4024889	806	9.9706790	55	9.4168099	862	0.5831901	0	22
	30	9.4027307	806	9.9696625	55	9.4170683	861	0.5829317	30	
39	0	9.4029724	805	9.9686460	55	9.4173265	860	0.5826735	0	21
	30	9.4032140	805	9.9676294	55	9.4175846	860	0.5824154	30	
40	0	9.4034554	805	9.9666129	55	9.4178425	859	0.5821575	0	20
	30	9.4036967	804	9.9655964	55	9.4181003	859	0.5818997	30	
41	0	9.4039378	804	9.9645798	55	9.4183580	858	0.5816420	0	19
	30	9.4041788	803	9.9635633	55	9.4186155	858	0.5813845	03	
42	0	9.4044196	803	9.9625467	55	9.4188729	858	0.5811271	0	18
	30	9.4046603	803	9.9615301	55	9.4191302	857	0.5808698	30	
43	0	9.4049009	802	9.9605135	55	9.4193874	856	0.5806126	0	17
	30	9.4051413	801	9.9594970	56	9.4196444	856	0.5803556	30	
44	0	9.4053816	801	9.9584803	55	9.4199013	856	0.5800987	0	16
	30	9.4056217	800	9.9574637	55	9.4201580	856	0.5798420	30	
45	0	9.4058617	800	9.9564471	55	9.4204146	855	0.5795854	0	15
	30	9.4061016	799	9.9554305	56	9.4206711	855	0.5793289	30	
46	0	9.4063413	798	9.9544138	55	9.4209275	854	0.5790725	0	14
	30	9.4065808	799	9.9533972	56	9.4211837	854	0.5788163	30	
47	0	9.4068203	797	9.9523805	56	9.4214398	853	0.5785602	0	13
	30	9.4070596	797	9.9513638	55	9.4216957	853	0.5783043	30	
48	0	9.4072987	797	9.9503471	55	9.4219515	853	0.5780485	0	12
	30	9.4075377	796	9.9493305	56	9.4222072	852	0.5777928	30	
49	0	9.4077766	795	9.9483138	56	9.4224628	852	0.5775372	0	11
	30	9.4080153	795	9.9472970	55	9.4227182	852	0.5772818	30	
50	0	9.4082539	795	9.9462803	56	9.4229735	851	0.5770265	0	10
	30	9.4084923	794	9.9452636	56	9.4232287	850	0.5767713	30	
51	0	9.4087306	794	9.9442468	55	9.4234838	849	0.5765162	0	9
	30	9.4089688	793	9.9432301	56	9.4237387	849	0.5762613	30	
52	0	9.4092068	793	9.9422133	56	9.4239935	849	0.5760065	0	8
	30	9.4094447	792	9.9411965	55	9.4242481	849	0.5757519	30	
53	0	9.4096824	792	9.9401798	56	9.4245026	848	0.5754974	0	7
	30	9.4099200	792	9.9391630	56	9.4247570	848	0.5752430	30	
54	0	9.4101575	791	9.9381462	56	9.4250113	847	0.5749887	0	6
	30	9.4103948	791	9.9371294	56	9.4252654	847	0.5747346	30	
55	0	9.4106320	790	9.9351125	56	9.4255194	847	0.5744806	0	5
	30	9.4108690	790	9.9350957	56	9.4257733	846	0.5742267	30	
56	0	9.4111059	790	9.9340789	57	9.4260271	845	0.5739729	0	4
	30	9.4113427	789	9.9330620	56	9.4262807	845	0.5737193	30	
57	0	9.4115793	789	9.9320452	57	9.4265342	845	0.5734658	0	3
	30	9.4118158	788	9.9310283	56	9.4267875	845	0.5732125	30	
58	0	9.4120522	787	9.9300114	56	9.4270408	844	0.5729592	0	2
	30	9.4122884	787	9.9289945	56	9.4272939	843	0.5727061	30	
59	0	9.4125245	786	9.9279776	56	9.4275469	843	0.5724531	0	1
	30	9.4127604	786	9.9269607	56	9.4277997	843	0.5722003	30	
60	0	9.4129962		9.9259438		9.4280525		0.5719475	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.4129962	786	9.9849438	57	9.4280525	842	0.5719475	0	60
	30	9.4132319	785	9.9849268	56	9.4283051	841	0.5716949	30	
1	0	9.4134674	785	9.9849099	56	9.4285575	842	0.5714426	0	59
	30	9.4137028	785	9.9848930	57	9.4288099	841	0.5711901	30	
2	0	9.4139381	784	9.9848760	57	9.4290621	840	0.5709379	0	58
	30	9.4141732	783	9.9848590	56	9.4293142	840	0.5706858	30	
3	0	9.4144082	783	9.9848420	56	9.4295661	840	0.5704339	0	57
	30	9.4146430	783	9.9848251	57	9.4298180	839	0.5701820	30	
4	0	9.4148778	782	9.9848081	57	9.4300697	839	0.5699303	0	56
	30	9.4151123	782	9.9847911	57	9.4303213	838	0.5696787	30	
5	0	9.4153468	781	9.9847740	56	9.4305727	838	0.5694273	0	55
	30	9.4155811	780	9.9847570	57	9.4308241	837	0.5691759	30	
6	0	9.4158152	781	9.9847400	57	9.4310753	837	0.5689247	0	54
	30	9.4160493	780	9.9847229	57	9.4313264	836	0.5686736	30	
7	0	9.4162832	779	9.9847059	57	9.4315773	836	0.5684227	0	53
	30	9.4165169	779	9.9846888	57	9.4318281	836	0.5681719	30	
8	0	9.4167506	778	9.9846717	57	9.4320789	835	0.5679211	0	52
	30	9.4169841	778	9.9846546	57	9.4323294	835	0.5676706	30	
9	0	9.4172174	778	9.9846375	57	9.4325799	835	0.5674201	0	51
	30	9.4174506	778	9.9846204	57	9.4328302	834	0.5671698	30	
10	0	9.4176837	777	9.9846033	57	9.4330804	834	0.5669196	0	50
	30	9.4179167	776	9.9845862	57	9.4333305	834	0.5666695	30	
11	0	9.4181495	776	9.9845690	57	9.4335805	833	0.5664195	0	49
	30	9.4183822	775	9.9845519	57	9.4338303	833	0.5661697	30	
12	0	9.4186148	775	9.9845347	57	9.4340800	832	0.5659200	0	48
	30	9.4188472	774	9.9845176	58	9.4343296	832	0.5656704	03	
13	0	9.4190795	774	9.9845004	57	9.4345791	831	0.5654209	0	47
	30	9.4193116	774	9.9844832	57	9.4348284	831	0.5651716	30	
14	0	9.4195436	774	9.9844660	57	9.4350776	831	0.5649224	0	46
	30	9.4197755	775	9.9844488	57	9.4353267	830	0.5646733	30	
15	0	9.4200073	772	9.9844316	58	9.4355757	830	0.5644243	0	45
	30	9.4202389	772	9.9844144	58	9.4358245	830	0.5641755	30	
16	0	9.4204704	771	9.9843971	57	9.4360733	829	0.5639267	0	44
	30	9.4207018	770	9.9843799	58	9.4363219	828	0.5636781	30	
17	0	9.4209330	770	9.9843626	57	9.4365704	828	0.5634296	0	43
	30	9.4211641	770	9.9843454	58	9.4368187	828	0.5631813	30	
18	0	9.4213950	770	9.9843281	58	9.4370670	827	0.5629330	0	42
	30	9.4216259	769	9.9843108	58	9.4373151	826	0.5626849	30	
19	0	9.4218566	768	9.9842935	58	9.4375631	826	0.5624369	0	41
	30	9.4220871	769	9.9842762	58	9.4378109	826	0.5621891	30	
20	0	9.4223176	767	9.9842589	58	9.4380587	825	0.5619413	0	40
	30	9.4225479	767	9.9842416	58	9.4383063	825	0.5616937	30	
21	0	9.4227780	767	9.9842242	58	9.4385538	825	0.5614462	0	39
	30	9.4230081	766	9.9842069	58	9.4388012	824	0.5611988	30	
22	0	9.4232380	766	9.9841895	58	9.4390485	823	0.5609515	0	38
	30	9.4234678	765	9.9841722	58	9.4392956	823	0.5607044	30	
23	0	9.4236974	765	9.9841548	58	9.4395426	823	0.5604574	0	37
	30	9.4239269	765	9.9841374	58	9.4397895	823	0.5602105	30	
24	0	9.4241563	764	9.9841200	58	9.4400363	822	0.5599637	0	36
	30	9.4243856	764	9.9841026	58	9.4402830	822	0.5597170	30	
25	0	9.4246147	763	9.9840852	58	9.4405295	822	0.5594705	0	35
	30	9.4248437	763	9.9840678	58	9.4407759	821	0.5592241	30	
26	0	9.4250726	762	9.9840503	58	9.4410222	821	0.5589778	0	34
	30	9.4253013	762	9.9840329	58	9.4412684	820	0.5587316	30	
27	0	9.4255299	762	9.9840154	58	9.4415145	819	0.5584855	0	33
	30	9.4257584	761	9.9839980	58	9.4417604	819	0.5582396	30	
28	0	9.4259867	761	9.9839806	58	9.4420062	819	0.5579938	0	32
	30	9.4262149	761	9.9839630	58	9.4422519	819	0.5577481	30	
29	0	9.4264430	760	9.9839456	58	9.4424976	818	0.5575025	0	31
	30	9.4266710	760	9.9839280	58	9.4427430	818	0.5572570	30	
30	0	9.4268988		9.9839105		9.4429883		0.5570117	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.4268388	759	9.9838105	58	9.4429883	818	0.5570117	0	30
	30	9.4271265	759	9.9838330	58	9.4432335	817	0.5567665	30	
31	0	9.4273541	758	9.9838555	59	9.4434786	817	0.5565214	0	29
	30	9.4275815	758	9.9838779	58	9.4437236	817	0.5562764	30	
32	0	9.4278089	757	9.9838404	59	9.4439685	816	0.5560315	0	28
	30	9.4280361		9.9838228	59	9.4442133	815	0.5557867	30	
33	0	9.4282631	757	9.9838052	58	9.4444579	815	0.5555421	0	27
	30	9.4284901	757	9.9837877	59	9.4447024	815	0.5552976	30	
34	0	9.4287169	756	9.9837701	59	9.4449468	814	0.5550532	0	26
	30	9.4289435	755	9.9837525	59	9.4451911	814	0.5548089	30	
35	0	9.4291701	756	9.9837348	58	9.4454352	814	0.5545648	0	25
	30	9.4293965	755	9.9837172	58	9.4456793	813	0.5543207	30	
36	0	9.4296228	755	9.9836996	59	9.4459232	813	0.5540768	0	24
	30	9.4298490	754	9.9836820	59	9.4461670	813	0.5538330	30	
37	0	9.4300750	753	9.9836643	59	9.4464107	812	0.5535893	0	23
	30	9.4303009	753	9.9836466	58	9.4466543	812	0.5533457	30	
38	0	9.4305267	753	9.9836290	59	9.4468978	811	0.5531022	0	22
	30	9.4307524	752	9.9836113	59	9.4471411	811	0.5528589	30	
39	0	9.4309779	752	9.9835936	59	9.4473843	811	0.5526157	0	21
	30	9.4312033	752	9.9835759	59	9.4476274	811	0.5523726	30	
40	0	9.4314286	751	9.9835582	59	9.4478704	810	0.5521296	0	20
	30	9.4316538	750	9.9835405	59	9.4481133	810	0.5518867	30	
41	0	9.4318788	750	9.9835227	59	9.4483561	809	0.5516439	0	19
	30	9.4321037	750	9.9835050	59	9.4485987	809	0.5514013	30	
42	0	9.4323285	749	9.9834872	59	9.4488413	808	0.5511587	0	18
	30	9.4325532	748	9.9834695	59	9.4490837	808	0.5509163	30	
43	0	9.4327777	748	9.9834517	59	9.4493260	807	0.5506740	0	17
	30	9.4330021	748	9.9834339	59	9.4495682	807	0.5504318	30	
44	0	9.4332264	747	9.9834161	59	9.4498102	807	0.5501898	0	16
	30	9.4334505	747	9.9833983	59	9.4500522	806	0.5499478	30	
45	0	9.4336746	746	9.9833805	59	9.4502940	806	0.5497060	0	15
	30	9.4338985	746	9.9833627	59	9.4505358	805	0.5494642	30	
46	0	9.4341223	745	9.9833449	60	9.4507774	805	0.5492226	0	14
	30	9.4343459	745	9.9833271	60	9.4510189	804	0.5489811	30	
47	0	9.4345694	745	9.9833092	59	9.4512602	805	0.5487398	0	13
	30	9.4347929	744	9.9832913	59	9.4515015	804	0.5484985	30	
48	0	9.4350161	744	9.9832735	60	9.4517427	803	0.5482573	0	12
	30	9.4352393	744	9.9832556	60	9.4519837	803	0.5480163	30	
49	0	9.4354623	744	9.9832377	60	9.4522246	803	0.5477754	0	11
	30	9.4356852	743	9.9832198	60	9.4524654	803	0.5475346	30	
50	0	9.4359080	743	9.9832019	60	9.4527061	802	0.5472939	0	10
	30	9.4361307	742	9.9831840	60	9.4529467	802	0.5470533	30	
51	0	9.4363532	742	9.9831661	60	9.4531872	801	0.5468128	0	9
	30	9.4365757	741	9.9831481	60	9.4534276	800	0.5465724	30	
52	0	9.4367980	740	9.9831302	60	9.4536678	801	0.5463322	0	8
	30	9.4370201	741	9.9831122	60	9.4539079	800	0.5460921	30	
53	0	9.4372422	740	9.9830942	60	9.4541479	800	0.5458521	0	7
	30	9.4374641	740	9.9830763	60	9.4543879	799	0.5456121	30	
54	0	9.4376859	739	9.9830583	60	9.4546276	800	0.5453724	0	6
	30	9.4379076	739	9.9830403	60	9.4548673	799	0.5451327	30	
55	0	9.4381292	738	9.9830223	60	9.4551069	798	0.5448931	0	5
	30	9.4383506	738	9.9830042	60	9.4553464	797	0.5446536	30	
56	0	9.4385719	738	9.9829862	60	9.4555857	798	0.5444143	0	4
	30	9.4387931	737	9.9829682	60	9.4558249	798	0.5441751	30	
57	0	9.4390142	737	9.9829501	60	9.4560641	796	0.5439359	0	3
	30	9.4392351	737	9.9829321	60	9.4563031	796	0.5436969	30	
58	0	9.4394560	736	9.9829140	60	9.4565420	796	0.5434580	0	2
	30	9.4396767	735	9.9828959	60	9.4567807	796	0.5432193	30	
59	0	9.4398973	735	9.9828778	60	9.4570194	796	0.5429806	0	1
	30	9.4401177	735	9.9828597	60	9.4572580	795	0.5427420	30	
60	0	9.4403381		9.9828416		9.4574964		0.5425036	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.4403381	734	9.9828416	60	9.4574964	795	0.5425036	0	60
	30	9.4405583	734	9.9828235	60	9.4577348	794	0.5422652	30	
1	0	9.4407784	733	9.9828054	61	9.4579730	794	0.5420270	0	59
	30	9.4409984	733	9.9827873	61	9.4582111	794	0.5417889	30	
2	0	9.4412182	733	9.9827691	60	9.4584491	794	0.5415509	0	58
	30	9.4414380	732	9.9827510	61	9.4586870	793	0.5413130	30	
3	0	9.4416576	732	9.9827328	61	9.4589248	793	0.5410752	0	57
	30	9.4418771	732	9.9827146	61	9.4591625	792	0.5408375	30	
4	0	9.4420965	731	9.9826964	60	9.4594001	791	0.5405999	0	56
	30	9.4423158	730	9.9826782	60	9.4596375	792	0.5403625	30	
5	0	9.4425349	730	9.9826600	61	9.4598749	791	0.5401251	0	55
	30	9.4427539	730	9.9826418	61	9.4601121	791	0.5398879	30	
6	0	9.4429728	730	9.9826236	61	9.4603492	791	0.5396508	0	54
	30	9.4431916	729	9.9826053	60	9.4605863	789	0.5394137	30	
7	0	9.4434103	728	9.9825871	61	9.4608232	789	0.5391768	0	53
	30	9.4436288	728	9.9825688	61	9.4610600	789	0.5389400	30	
8	0	9.4438472	728	9.9825506	61	9.4612967	788	0.5387033	0	52
	30	9.4440655	728	9.9825323	61	9.4615333	788	0.5384667	30	
9	0	9.4442837	727	9.9825140	61	9.4617697	788	0.5382303	0	51
	30	9.4445018	727	9.9824957	61	9.4620061	788	0.5379939	30	
10	0	9.4447197	727	9.9824774	61	9.4622423	788	0.5377577	0	50
	30	9.4449376	726	9.9824591	61	9.4624785	787	0.5375215	30	
11	0	9.4451553	725	9.9824408	62	9.4627145	787	0.5372855	0	49
	30	9.4453729	725	9.9824224	61	9.4629505	786	0.5370495	30	
12	0	9.4455904	724	9.9824041	61	9.4631863	786	0.5368137	0	48
	30	9.4458077	724	9.9823857	61	9.4634220	785	0.5365780	30	
13	0	9.4460250	723	9.9823674	62	9.4636576	785	0.5363424	0	47
	30	9.4462421	723	9.9823490	62	9.4638931	785	0.5361069	30	
14	0	9.4464591	723	9.9823306	61	9.4641285	784	0.5358715	0	46
	30	9.4466760	722	9.9823122	61	9.4643638	784	0.5356362	30	
15	0	9.4468927	723	9.9822938	62	9.4645990	783	0.5354010	0	45
	30	9.4471094	722	9.9822754	62	9.4648340	784	0.5351660	30	
16	0	9.4473259	722	9.9822569	61	9.4650690	783	0.5349310	0	44
	30	9.4475423	722	9.9822385	61	9.4653038	783	0.5346962	30	
17	0	9.4477586	721	9.9822201	62	9.4655386	782	0.5344614	0	43
	30	9.4479748	721	9.9822016	61	9.4657732	782	0.5342268	30	
18	0	9.4481909	720	9.9821831	61	9.4660078	781	0.5339922	0	42
	30	9.4484069	719	9.9821647	62	9.4662422	781	0.5337578	30	
19	0	9.4486227	719	9.9821462	62	9.4664765	781	0.5335235	0	41
	30	9.4488384	719	9.9821277	62	9.4667107	781	0.5332893	30	
20	0	9.4490540	718	9.9821092	62	9.4669448	780	0.5330552	0	40
	30	9.4492695	718	9.9820907	62	9.4671788	780	0.5328212	30	
21	0	9.4494849	717	9.9820721	61	9.4674127	780	0.5325873	0	39
	30	9.4497001	717	9.9820536	62	9.4676465	779	0.5323535	30	
22	0	9.4499153	716	9.9820351	62	9.4678802	779	0.5321198	0	38
	30	9.4501303	716	9.9820165	62	9.4681138	778	0.5318862	30	
23	0	9.4503452	716	9.9819979	62	9.4683473	778	0.5316527	0	37
	30	9.4505600	715	9.9819794	62	9.4685806	778	0.5314194	30	
24	0	9.4507747	715	9.9819608	62	9.4688139	777	0.5311861	0	36
	30	9.4509892	715	9.9819422	62	9.4690470	777	0.5309530	30	
25	0	9.4512037	714	9.9819236	62	9.4692801	776	0.5307199	0	35
	30	9.4514180	714	9.9819050	63	9.4695130	777	0.5304870	30	
26	0	9.4516322	714	9.9818863	62	9.4697459	776	0.5302541	0	34
	30	9.4518463	713	9.9818677	62	9.4699786	776	0.5300214	30	
27	0	9.4520603	713	9.9818490	62	9.4702112	776	0.5297888	0	33
	30	9.4522742	712	9.9818304	62	9.4704438	775	0.5295562	30	
28	0	9.4524879	712	9.9818117	62	9.4706762	774	0.5293238	0	32
	30	9.4527016	712	9.9817931	63	9.4709085	774	0.5290915	30	
29	0	9.4529151	711	9.9817744	63	9.4711407	774	0.5288593	0	31
	30	9.4531285	711	9.9817557	63	9.4713728	774	0.5286272	30	
30	0	9.4533418		9.9817370		9.4716048		0.5283952	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.4533418	711	9.9817370	63	9.4716048	774	0.5283952	0	30
	30	9.4535550	710	9.9817182	62	9.4718367	773	0.5281633	30	
31	0	9.4537681	710	9.9816995	62	9.4720685	773	0.5279315	0	29
	30	9.4539810	710	9.9816808	63	9.4723002	772	0.5276998	30	
32	0	9.4541939	709	9.9816620	62	9.4725318	772	0.5274682	0	28
	30	9.4544066	709	9.9816433	63	9.4727633	772	0.5272367	30	
33	0	9.4546192	709	9.9816245	62	9.4729947	771	0.5270053	0	27
	30	9.4548317	708	9.9816057	62	9.4732260	770	0.5267740	30	
34	0	9.4550441	708	9.9815870	63	9.4734572	770	0.5265428	0	26
	30	9.4552564	707	9.9815682	63	9.4736882	770	0.5263118	30	
35	0	9.4554686	707	9.9815494	63	9.4739192	770	0.5260808	0	25
	30	9.4556806	707	9.9815305	62	9.4741501	769	0.5258499	30	
36	0	9.4558926	706	9.9815117	63	9.4743808	769	0.5256192	0	24
	30	9.4561044	706	9.9814929	63	9.4746115	769	0.5253885	30	
37	0	9.4563161	705	9.9814740	62	9.4748421	768	0.5251579	0	23
	30	9.4565277	705	9.9814552	63	9.4750725	768	0.5249275	30	
38	0	9.4567392	705	9.9814363	63	9.4753029	767	0.5246971	0	22
	30	9.4569506	704	9.9814174	63	9.4755331	768	0.5244669	30	
39	0	9.4571618	704	9.9813986	63	9.4757633	767	0.5242367	0	21
	30	9.4573730	704	9.9813797	63	9.4759933	767	0.5240067	30	
40	0	9.4575840	704	9.9813608	63	9.4762233	766	0.5237767	0	20
	30	9.4577950	703	9.9813418	63	9.4764531	766	0.5235469	30	
41	0	9.4580058	702	9.9813229	63	9.4766829	765	0.5233171	0	19
	30	9.4582165	702	9.9813040	63	9.4769125	766	0.5230875	30	
42	0	9.4584271	702	9.9812850	63	9.4771421	765	0.5228579	0	18
	30	9.4586376	701	9.9812661	63	9.4773715	765	0.5226285	30	
43	0	9.4588480	701	9.9812471	63	9.4776009	764	0.5223991	0	17
	30	9.4590582	701	9.9812281	63	9.4778301	764	0.5221699	30	
44	0	9.4592684	700	9.9812091	63	9.4780592	764	0.5219408	0	16
	30	9.4594784	700	9.9811902	64	9.4782883	763	0.5217117	30	
45	0	9.4596884	699	9.9811711	63	9.4785172	763	0.5214828	0	15
	30	9.4598982	699	9.9811521	63	9.4787460	763	0.5212540	30	
46	0	9.4601079	699	9.9811331	63	9.4789748	762	0.5210252	0	14
	30	9.4603175	698	9.9811141	64	9.4792034	762	0.5207966	30	
47	0	9.4605270	698	9.9810950	63	9.4794319	762	0.5205681	0	13
	30	9.4607364	697	9.9810760	64	9.4796604	761	0.5203396	30	
48	0	9.4609456	698	9.9810569	64	9.4798887	761	0.5201113	0	12
	30	9.4611548	697	9.9810378	63	9.4801170	760	0.5198830	30	
49	0	9.4613638	697	9.9810187	63	9.4803451	760	0.5196549	0	11
	30	9.4615728	696	9.9809996	63	9.4805731	760	0.5194269	30	
50	0	9.4617816	696	9.9809805	63	9.4808011	759	0.5191989	0	10
	30	9.4619903	696	9.9809614	63	9.4810289	759	0.5189711	30	
51	0	9.4621989	695	9.9809423	64	9.4812566	759	0.5187434	0	9
	30	9.4624074	695	9.9809232	64	9.4814843	758	0.5185157	30	
52	0	9.4626158	695	9.9809040	64	9.4817118	758	0.5182882	0	8
	30	9.4628241	694	9.9808849	64	9.4819393	757	0.5180607	30	
53	0	9.4630323	694	9.9808657	64	9.4821666	758	0.5178334	0	7
	30	9.4632404	693	9.9808465	64	9.4823938	758	0.5176062	30	
54	0	9.4634483	693	9.9808273	64	9.4826210	757	0.5173790	0	6
	30	9.4636562	692	9.9808081	64	9.4828480	757	0.5171520	30	
55	0	9.4638639	692	9.9807889	64	9.4830750	756	0.5169250	0	5
	30	9.4640715	692	9.9807697	64	9.4833018	756	0.5166982	30	
56	0	9.4642790	692	9.9807505	64	9.4835286	755	0.5164714	0	4
	30	9.4644865	691	9.9807313	65	9.4837552	755	0.5162448	30	
57	0	9.4646938	690	9.9807120	64	9.4839818	755	0.5160182	0	3
	30	9.4649010	690	9.9806927	64	9.4842082	755	0.5157918	30	
58	0	9.4651081	690	9.9806735	64	9.4844346	754	0.5155654	0	2
	30	9.4653150	690	9.9806542	64	9.4846608	754	0.5153392	30	
59	0	9.4655219	689	9.9806349	64	9.4848870	754	0.5151130	0	1
	30	9.4657287	689	9.9806156	64	9.4851131	753	0.5148869	30	
60	0	9.4659353		9.9805963		9.4853390		0.5146610	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	′	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.4659353	689	9.9805963	64	9.4853390	753	0.5146610	0	60
	30	9.4661419	688	9.9805770	64	9.4855649	753	0.5144351	30	
1	0	9.4663483	688	9.9805577	65	9.4857907	752	0.5142093	0	59
	30	9.4665547	687	9.9805383	64	9.4860163	752	0.5139837	30	
2	0	9.4667609	687	9.9805190	65	9.4862419	752	0.5137581	0	58
	30	9.4669670	687	9.9804996	64	9.4864674	751	0.5135326	30	
3	0	9.4671730	687	9.9804803	65	9.4866928	751	0.5133072	0	57
	30	9.4673789	687	9.9804609	65	9.4869181	750	0.5130819	30	
4	0	9.4675848	685	9.9804415	65	9.4871433	750	0.5128567	0	56
	30	9.4677904	686	9.9804221	65	9.4873683	751	0.5126317	30	
5	0	9.4679960	685	9.9804027	65	9.4875933	750	0.5124067	0	55
	30	9.4682015	685	9.9803833	65	9.4878182	750	0.5121818	30	
6	0	9.4684069	684	9.9803639	65	9.4880430	750	0.5119570	0	54
	30	9.4686122	684	9.9803444	65	9.4882677	749	0.5117323	30	
7	0	9.4688173	684	9.9803250	65	9.4884924	748	0.5115076	0	53
	30	9.4690224	683	9.9803055	65	9.4887169	748	0.5112831	30	
8	0	9.4692273	683	9.9802860	64	9.4889413	748	0.5110587	0	52
	30	9.4694322	682	9.9802666	65	9.4891656	748	0.5108344	30	
9	0	9.4696369	682	9.9802471	65	9.4893898	748	0.5106102	0	51
	30	9.4698416	681	9.9802276	65	9.4896140	747	0.5103860	30	
10	0	9.4700461	681	9.9802081	65	9.4898380	747	0.5101620	0	50
	30	9.4702505	681	9.9801886	66	9.4900620	746	0.5099380	30	
11	0	9.4704548	681	9.9801690	65	9.4902858	746	0.5097142	0	49
	30	9.4706590	681	9.9801495	65	9.4905096	745	0.5094904	30	
12	0	9.4708631	681	9.9801299	65	9.4907332	745	0.5092668	0	48
	30	9.4710671	680	9.9801104	65	9.4909568	745	0.5090432	30	
13	0	9.4712710	680	9.9800908	65	9.4911802	745	0.5088198	0	47
	30	9.4714748	679	9.9800712	65	9.4914036	744	0.5085964	30	
14	0	9.4716785	679	9.9800516	65	9.4916269	744	0.5083731	0	46
	30	9.4718821	678	9.9800320	65	9.4918501	743	0.5081499	30	
15	0	9.4720856	678	9.9800124	65	9.4920731	744	0.5079269	0	45
	30	9.4722890	677	9.9799928	65	9.4922961	744	0.5077039	30	
16	0	9.4724922	678	9.9799732	66	9.4925190	743	0.5074810	0	44
	30	9.4726954	677	9.9799536	66	9.4927418	743	0.5072582	30	
17	0	9.4728985	676	9.9799339	65	9.4929646	742	0.5070354	0	43
	30	9.4731014	676	9.9799142	65	9.4931872	742	0.5068128	30	
18	0	9.4733043	676	9.9798946	66	9.4934097	741	0.5065903	0	42
	30	9.4735070	676	9.9798749	66	9.4936321	741	0.5063679	30	
19	0	9.4737097	675	9.9798552	66	9.4938545	740	0.5061455	0	41
	30	9.4739122	675	9.9798355	66	9.4940767	741	0.5059233	30	
20	0	9.4741146	675	9.9798158	66	9.4942988	741	0.5057012	0	40
	30	9.4743170	674	9.9797961	66	9.4945209	740	0.5054791	30	
21	0	9.4745192	674	9.9797764	66	9.4947429	739	0.5052571	0	39
	30	9.4747213	674	9.9797566	66	9.4949647	740	0.5050353	30	
22	0	9.4749234	673	9.9797369	66	9.4951865	739	0.5048135	0	38
	30	9.4751253	673	9.9797171	66	9.4954082	739	0.5045918	30	
23	0	9.4753271	673	9.9796973	66	9.4956298	738	0.5043702	0	37
	30	9.4755288	672	9.9796776	66	9.4958513	738	0.5041487	30	
24	0	9.4757304	672	9.9796578	66	9.4960727	737	0.5039273	0	36
	30	9.4759319	672	9.9796380	66	9.4962940	737	0.5037060	30	
25	0	9.4761334	671	9.9796182	66	9.4965152	737	0.5034848	0	35
	30	9.4763347	670	9.9795983	66	9.4967363	737	0.5032637	30	
26	0	9.4765359	670	9.9795785	66	9.4969574	736	0.5030426	0	34
	30	9.4767370	670	9.9795587	66	9.4971783	736	0.5028217	30	
27	0	9.4769380	669	9.9795388	66	9.4973991	736	0.5026009	0	33
	30	9.4771389	669	9.9795190	67	9.4976199	736	0.5023801	30	
28	0	9.4773396	670	9.9794991	66	9.4978406	735	0.5021594	0	32
	30	9.4775403	669	9.9794792	66	9.4980611	735	0.5019389	30	
29	0	9.4777409	669	9.9794593	66	9.4982816	735	0.5017184	0	31
	30	9.4779414	668	9.9794394	66	9.4985020	734	0.5014980	30	
30	0	9.4781418		9.9794195		9.4987223		0.5012777	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.4781418	668	9.9794195	66	9.4987223	734	0.5012777	0	30
	30	9.4784421	667	9.9793996	67	9.4989425	734	0.5010575	30	
31	0	9.4785423	667	9.9793796	66	9.4991626	734	0.5008374	0	29
	30	9.4787424	666	9.9793597	66	9.4993826	734	0.5006174	30	
32	0	9.4789423	667	9.9793398	67	9.4996026	733	0.5003974	0	28
	30	9.4791422	666	9.9793198	67	9.4998224	733	0.5001776	30	
33	0	9.4793420	666	9.9792998	66	9.5000422	732	0.4999578	0	27
	30	9.4795417	665	9.9792798	66	9.5002618	732	0.4997382	30	
34	0	9.4797412	665	9.9792599	67	9.5004814	732	0.4995186	0	26
	30	9.4799407	665	9.9792398	66	9.5007009	731	0.4992991	30	
35	0	9.4801401	664	9.9792198	66	9.5009203	731	0.4990797	0	25
	30	9.4803394	664	9.9791998	67	9.5011396	730	0.4988604	30	
36	0	9.4805385	664	9.9791798	67	9.5013588	730	0.4986412	0	24
	30	9.4807376	664	9.9791597	67	9.5015779	730	0.4984221	30	
37	0	9.4809366	663	9.9791397	67	9.5017969	730	0.4982031	0	23
	30	9.4811355	662	9.9791196	67	9.5020158	730	0.4979842	30	
38	0	9.4813342	663	9.9790996	67	9.5022347	729	0.4977653	0	22
	30	9.4815329	662	9.9790795	67	9.5024534	729	0.4975466	30	
39	0	9.4817315	661	9.9790594	67	9.5026721	729	0.4973279	0	21
	30	9.4819299	662	9.9790393	67	9.5028907	728	0.4971093	30	
40	0	9.4821283	661	9.9790192	67	9.5031092	728	0.4968908	0	20
	30	9.4823266	661	9.9789990	67	9.5033275	727	0.4966724	30	
41	0	9.4825248	660	9.9789789	67	9.5035459	727	0.4964541	0	19
	30	9.4827228	660	9.9789588	68	9.5037641	727	0.4962359	30	
42	0	9.4829208	660	9.9789386	67	9.5039822	727	0.4960178	0	18
	30	9.4831187	659	9.9789184	67	9.5042002	727	0.4957998	30	
43	0	9.4833165	659	9.9788983	68	9.5044182	726	0.4955818	0	17
	30	9.4835141	659	9.9788781	67	9.5046361	726	0.4953639	30	
44	0	9.4837117	659	9.9788579	67	9.5048538	726	0.4951462	0	16
	30	9.4839092	658	9.9788377	68	9.5050715	725	0.4949285	30	
45	0	9.4841066	657	9.9788175	68	9.5052891	725	0.4947109	0	15
	30	9.4843038	658	9.9787972	67	9.5055066	725	0.4944934	30	
46	0	9.4845010	657	9.9787770	67	9.5057240	725	0.4942760	0	14
	30	9.4846981	657	9.9787568	68	9.5059413	725	0.4940587	30	
47	0	9.4848951	656	9.9787365	67	9.5061586	724	0.4938414	0	13
	30	9.4850920	656	9.9787162	67	9.5063757	724	0.4936243	30	
48	0	9.4852888	655	9.9786960	68	9.5065928	723	0.4934072	0	12
	30	9.4854855	655	9.9786757	68	9.5068098	723	0.4931902	30	
49	0	9.4856820	656	9.9786554	68	9.5070267	722	0.4929733	0	11
	30	9.4858785	655	9.9786351	68	9.5072435	722	0.4927565	30	
50	0	9.4860749	655	9.9786148	68	9.5074602	722	0.4925398	0	10
	30	9.4862712	654	9.9785944	68	9.5076768	722	0.4923232	30	
51	0	9.4864674	654	9.9785741	68	9.5078933	722	0.4921067	0	9
	30	9.4866635	654	9.9785538	68	9.5081098	721	0.4918902	30	
52	0	9.4868595	653	9.9785334	68	9.5083261	721	0.4916739	0	8
	30	9.4870554	653	9.9785130	68	9.5085424	721	0.4914576	30	
53	0	9.4872512	653	9.9784927	68	9.5087586	720	0.4912414	0	7
	30	9.4874470	652	9.9784723	68	9.5089747	720	0.4910253	30	
54	0	9.4876426	652	9.9784519	68	9.5091907	720	0.4908093	0	6
	30	9.4878381	651	9.9784315	68	9.5094066	720	0.4905934	30	
55	0	9.4880335	651	9.9784111	69	9.5096224	720	0.4903776	0	5
	30	9.4882288	651	9.9783906	68	9.5098382	719	0.4901618	30	
56	0	9.4884240	651	9.9783702	68	9.5100539	718	0.4899461	0	4
	30	9.4886192	650	9.9783497	68	9.5102694	719	0.4897306	30	
57	0	9.4888142	650	9.9783293	68	9.5104849	718	0.4895151	0	3
	30	9.4890091	650	9.9783088	68	9.5107003	718	0.4892997	30	
58	0	9.4892040	649	9.9782883	68	9.5109156	718	0.4890844	0	2
	30	9.4893987	649	9.9782679	69	9.5111309	717	0.4888691	30	
59	0	9.4895934	648	9.9782474	69	9.5113460	717	0.4886540	0	1
	30	9.4897879	648	9.9782268	68	9.5115611	716	0.4884389	30	
60	0	9.4899824		9.9782063		9.5117760		0.4882240	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.4899824	648	9.9782063	68	9.5117760	717	0.4882240	0	60
	30	9.4901767	648	9.9781858	68	9.5119909	716	0.4880091	30	
1	0	9.4903710	647	9.9781653	69	9.5122057	716	0.4877943	0	59
	30	9.4905651	647	9.9781447	68	9.5124204	716	0.4875796	30	
2	0	9.4907592	647	9.9781241	68	9.5126351	715	0.4873649	0	58
	30	9.4909532	646	9.9781036	69	9.5128496	715	0.4871504	30	
3	0	9.4911471	646	9.9780830	69	9.5130641	714	0.4869359	0	57
	30	9.4913408	646	9.9780624	69	9.5132784	715	0.4867216	30	
4	0	9.4915345	646	9.9780418	69	9.5134927	714	0.4865073	0	56
	30	9.4917281	645	9.9780212	69	9.5137069	714	0.4862931	30	
5	0	9.4919216	645	9.9780006	69	9.5139210	714	0.4860790	0	55
	30	9.4921150	644	9.9779799	68	9.5141351	713	0.4858649	30	
6	0	9.4923083	644	9.9779593	69	9.5143490	713	0.4856510	0	54
	30	9.4925015	644	9.9779387	69	9.5145629	712	0.4854371	30	
7	0	9.4926946	644	9.9779180	69	9.5147766	713	0.4852234	0	53
	30	9.4928876	644	9.9778973	69	9.5149903	712	0.4850097	30	
8	0	9.4930806	643	9.9778766	69	9.5152039	712	0.4847961	0	52
	30	9.4932734	642	9.9778560	69	9.5154174	712	0.4845826	30	
9	0	9.4934661	643	9.9778353	69	9.5156309	711	0.4843691	0	51
	30	9.4936588	642	9.9778145	70	9.5158442	711	0.4841558	30	
10	0	9.4938513	642	9.9777938	69	9.5160575	711	0.4839425	0	50
	30	9.4940438	641	9.9777731	69	9.5162707	710	0.4837293	30	
11	0	9.4942361	641	9.9777523	69	9.5164838	710	0.4835162	0	49
	30	9.4944284	640	9.9777316	69	9.5166968	710	0.4833032	30	
12	0	9.4946205	641	9.9777108	69	9.5169097	710	0.4830903	0	48
	30	9.4948126	640	9.9776901	70	9.5171226	709	0.4828774	30	
13	0	9.4950046	640	9.9776693	70	9.5173353	709	0.4826647	0	47
	30	9.4951965	639	9.9776485	70	9.5175480	709	0.4824520	30	
14	0	9.4953883	639	9.9776277	70	9.5177606	708	0.4822394	0	46
	30	9.4955800	638	9.9776069	70	9.5179731	708	0.4820269	30	
15	0	9.4957716	638	9.9775860	69	9.5181855	708	0.4818145	0	45
	30	9.4959631	638	9.9775652	69	9.5183979	707	0.4816021	30	
16	0	9.4961545	638	9.9775444	70	9.5186101	708	0.4813899	0	44
	30	9.4963458	638	9.9775235	69	9.5188223	707	0.4811777	30	
17	0	9.4965370	638	9.9775026	69	9.5190344	707	0.4809656	0	43
	30	9.4967282	637	9.9774818	70	9.5192464	707	0.4807536	30	
18	0	9.4969192	637	9.9774609	70	9.5194583	707	0.4805417	0	42
	30	9.4971102	636	9.9774400	70	9.5196702	706	0.4803298	30	
19	0	9.4973010	636	9.9774191	70	9.5198819	706	0.4801181	0	41
	30	9.4974918	635	9.9773982	70	9.5200936	706	0.4799064	30	
20	0	9.4976824	636	9.9773772	69	9.5203052	705	0.4796948	0	40
	30	9.4978730	635	9.9773563	70	9.5205167	706	0.4794833	30	
21	0	9.4980635	635	9.9773354	70	9.5207282	704	0.4792718	0	39
	30	9.4982539	634	9.9773144	70	9.5209395	704	0.4790605	30	
22	0	9.4984442	634	9.9772934	70	9.5211508	704	0.4788492	0	38
	30	9.4986344	634	9.9772725	70	9.5213619	704	0.4786381	30	
23	0	9.4988245	634	9.9772515	70	9.5215730	704	0.4784270	0	37
	30	9.4990145	634	9.9772305	70	9.5217841	703	0.4782159	30	
24	0	9.4992045	633	9.9772095	70	9.5219950	703	0.4780050	0	36
	30	9.4993943	633	9.9771884	70	9.5222059	702	0.4777941	30	
25	0	9.4995840	633	9.9771674	70	9.5224166	703	0.4775834	0	35
	30	9.4997737	632	9.9771464	70	9.5226273	702	0.4773727	30	
26	0	9.4999633	631	9.9771253	70	9.5228379	702	0.4771621	0	34
	30	9.5001527	632	9.9771043	70	9.5230485	701	0.4769515	30	
27	0	9.5003421	631	9.9770832	70	9.5232589	701	0.4767411	0	33
	30	9.5005314	631	9.9770621	70	9.5234693	701	0.4765307	30	
28	0	9.5007206	630	9.9770410	70	9.5236795	701	0.4763205	0	32
	30	9.5009097	630	9.9770199	70	9.5238897	701	0.4761103	30	
29	0	9.5010987	630	9.9769988	70	9.5240999	700	0.4759001	0	31
	30	9.5012876	630	9.9769777	70	9.5243099	700	0.4756901	30	
30	0	9.5014764		9.9769566		9.5245199		0.4754801	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5014764	630	9.9765566	71	9.5245199	699	0.4754801	0	30
	30	9.5016652	629	9.9765354	70	9.5247247	700	0.4752753	30	
31	0	9.5018538	629	9.9765143	71	9.5249295	699	0.4750705	0	29
	30	9.5020424	628	9.9764931	70	9.5251342	699	0.4748658	30	
32	0	9.5022308	628	9.9764720	71	9.5253389	698	0.4746611	0	28
	30	9.5024192	628	9.9764508	71	9.5255684	699	0.4744316	30	
33	0	9.5026075	627	9.9764296	71	9.5257779	698	0.4742221	0	27
	30	9.5027957	627	9.9764084	71	9.5259873	698	0.4740127	30	
34	0	9.5029838	627	9.9763872	71	9.5261966	698	0.4738034	0	26
	30	9.5031718	626	9.9763660	71	9.5264058	698	0.4735942	30	
35	0	9.5033597	626	9.9763447	71	9.5266150	697	0.4733850	0	25
	30	9.5035475	626	9.9763235	71	9.5268241	696	0.4731759	30	
36	0	9.5037353	625	9.9763022	71	9.5270331	696	0.4729669	0	24
	30	9.5039229	626	9.9762810	71	9.5272420	696	0.4727580	30	
37	0	9.5041105	625	9.9762597	71	9.5274508	696	0.4725492	0	23
	30	9.5042980	624	9.9762384	71	9.5276595	696	0.4723405	30	
38	0	9.5044853	625	9.9762171	71	9.5278682	696	0.4721318	0	22
	30	9.5046726	624	9.9761958	71	9.5280768	695	0.4719232	30	
39	0	9.5048598	624	9.9761745	71	9.5282853	695	0.4717147	0	21
	30	9.5050469	624	9.9761532	71	9.5284937	695	0.4715063	30	
40	0	9.5052339	624	9.9761318	71	9.5287021	694	0.4712979	0	20
	30	9.5054209	623	9.9761105	71	9.5289104	694	0.4710896	30	
41	0	9.5056077	623	9.9760891	71	9.5291186	693	0.4708814	0	19
	30	9.5057945	622	9.9760678	71	9.5293267	693	0.4706733	30	
42	0	9.5059811	622	9.9760464	71	9.5295347	693	0.4704653	0	18
	30	9.5061677	622	9.9760250	71	9.5297427	693	0.4702573	30	
43	0	9.5063542	621	9.9760036	71	9.5299505	693	0.4700495	0	17
	30	9.5065406	621	9.9759822	71	9.5301583	693	0.4698417	30	
44	0	9.5067269	620	9.9759608	71	9.5303661	692	0.4696339	0	16
	30	9.5069131	620	9.9759394	72	9.5305737	692	0.4694263	30	
45	0	9.5070992	620	9.9759179	71	9.5307813	691	0.4692187	0	15
	30	9.5072852	620	9.9758965	72	9.5309887	692	0.4690113	30	
46	0	9.5074712	619	9.9758750	71	9.5311961	692	0.4688039	0	14
	30	9.5076570	620	9.9758536	72	9.5314035	691	0.4685965	30	
47	0	9.5078428	619	9.9758321	72	9.5316107	691	0.4683893	0	13
	30	9.5080285	619	9.9758106	72	9.5318179	690	0.4681821	30	
48	0	9.5082141	618	9.9757891	72	9.5320250	690	0.4679750	0	12
	30	9.5083996	618	9.9757676	72	9.5322320	690	0.4677680	30	
49	0	9.5085850	618	9.9757461	72	9.5324389	690	0.4675611	0	11
	30	9.5087703	618	9.9757245	71	9.5326458	689	0.4673542	30	
50	0	9.5089556	617	9.9757030	72	9.5328526	689	0.4671474	0	10
	30	9.5091407	617	9.9756815	72	9.5330593	688	0.4669407	30	
51	0	9.5093258	616	9.9756599	72	9.5332659	688	0.4667341	0	9
	30	9.5095107	617	9.9756383	72	9.5334724	689	0.4665276	30	
52	0	9.5096956	616	9.9756167	72	9.5336789	688	0.4663211	0	8
	30	9.5098804	616	9.9755952	72	9.5338853	689	0.4661147	30	
53	0	9.5100651	616	9.9755736	72	9.5340916	687	0.4659084	0	7
	30	9.5102498	615	9.9755519	72	9.5342978	688	0.4657022	30	
54	0	9.5104343	615	9.9755303	72	9.5345040	687	0.4654960	0	6
	30	9.5106187	615	9.9755087	72	9.5347101	686	0.4652899	30	
55	0	9.5108031	614	9.9758870	72	9.5349161	686	0.4650839	0	5
	30	9.5109874	614	9.9758654	72	9.5351220	686	0.4648780	30	
56	0	9.5111716	613	9.9758437	72	9.5353278	686	0.4646722	0	4
	30	9.5113557	613	9.9758221	73	9.5355336	686	0.4644664	30	
57	0	9.5115397	613	9.9758004	73	9.5357393	685	0.4642607	0	3
	30	9.5117236	613	9.9757787	72	9.5359449	685	0.4640551	30	
58	0	9.5119074	613	9.9757570	73	9.5361505	685	0.4638495	0	2
	30	9.5120912	612	9.9757353	73	9.5363559	685	0.4636441	30	
59	0	9.5122749	612	9.9757135	72	9.5365613	685	0.4634387	0	1
	30	9.5124584	612	9.9756918	72	9.5367666	684	0.4632334	30	
60	0	9.5126419		9.9756701		9.5369719		0.4630281	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
0	0	9.5126419	612	9.9756701	73	9.5369719	683	0.4630281	0	60
	30	9.5128253	611	9.9756483	72	9.5371770	684	0.4628230	30	
1	0	9.5130086	611	9.9756265	72	9.5373821	683	0.4626179	0	59
	30	9.5131919	610	9.9756048	73	9.5375871	683	0.4624129	30	
2	0	9.5133750	610	9.9755830	73	9.5377920	683	0.4622080	0	58
	30	9.5135581	610	9.9755612	73	9.5379969	682	0.4620031	30	
3	0	9.5137410	610	9.9755394	73	9.5382017	682	0.4617983	0	57
	30	9.5139239	610	9.9755176	73	9.5384064	682	0.4615936	30	
4	0	9.5141067	609	9.9754957	72	9.5386110	682	0.4613890	0	56
	30	9.5142894	609	9.9754739	73	9.5388155	682	0.4611845	30	
5	0	9.5144721	608	9.9754521	73	9.5390200	681	0.4609800	0	55
	30	9.5146546	608	9.9754302	73	9.5392244	681	0.4607756	30	
6	0	9.5148371	608	9.9754083	73	9.5394287	681	0.4605713	0	54
	30	9.5150194	608	9.9753865	73	9.5396330	680	0.4603670	30	
7	0	9.5152017	607	9.9753646	73	9.5398371	681	0.4601629	0	53
	30	9.5153839	607	9.9753427	73	9.5400412	681	0.4599588	30	
8	0	9.5155660	607	9.9753208	74	9.5402453	679	0.4597547	0	52
	30	9.5157480	607	9.9752988	73	9.5404492	680	0.4595508	30	
9	0	9.5159300	606	9.9752769	73	9.5406531	679	0.4593469	0	51
	30	9.5161118	606	9.9752550	73	9.5408569	679	0.4591431	30	
10	0	9.5162936	606	9.9752330	73	9.5410606	679	0.4589394	0	50
	30	9.5164753	605	9.9752111	74	9.5412642	679	0.4587358	30	
11	0	9.5166569	605	9.9751891	73	9.5414678	678	0.4585322	0	49
	30	9.5168384	605	9.9751671	73	9.5416713	678	0.4583287	30	
12	0	9.5170198	605	9.9751451	73	9.5418747	678	0.4581253	0	48
	30	9.5172012	604	9.9751231	73	9.5420781	677	0.4579219	30	
13	0	9.5173824	604	9.9751011	73	9.5422813	678	0.4577187	0	47
	30	9.5175636	604	9.9750791	74	9.5424845	676	0.4575155	30	
14	0	9.5177447	603	9.9750570	73	9.5426877	677	0.4573123	0	46
	30	9.5179257	603	9.9750350	73	9.5428907	677	0.4571093	30	
15	0	9.5181066	603	9.9750129	73	9.5430937	676	0.4569063	0	45
	30	9.5182875	602	9.9749909	74	9.5432966	676	0.4567034	30	
16	0	9.5184682	602	9.9749688	74	9.5434994	676	0.4565006	0	44
	30	9.5186489	602	9.9749467	73	9.5437022	675	0.4562978	30	
17	0	9.5188295	601	9.9749246	73	9.5439048	676	0.4560952	0	43
	30	9.5190100	601	9.9749025	73	9.5441074	676	0.4558926	30	
18	0	9.5191904	601	9.9748804	74	9.5443100	675	0.4556900	0	42
	30	9.5193707	601	9.9748583	74	9.5445124	675	0.4554876	30	
19	0	9.5195510	600	9.9748361	73	9.5447148	674	0.4552852	0	41
	30	9.5197311	601	9.9748140	74	9.5449171	674	0.4550829	30	
20	0	9.5199112	600	9.9747918	73	9.5451193	674	0.4548807	0	40
	30	9.5200912	600	9.9747697	74	9.5453215	674	0.4546785	30	
21	0	9.5202711	600	9.9747475	74	9.5455236	673	0.4544764	0	39
	30	9.5204509	600	9.9747253	74	9.5457256	673	0.4542744	30	
22	0	9.5206307	599	9.9747031	74	9.5459276	673	0.4540724	0	38
	30	9.5208103	599	9.9746809	74	9.5461294	673	0.4538706	30	
23	0	9.5209899	598	9.9746587	74	9.5463312	673	0.4536688	0	37
	30	9.5211694	598	9.9746365	74	9.5465329	673	0.4534671	30	
24	0	9.5213488	598	9.9746142	74	9.5467346	672	0.4532654	0	36
	30	9.5215281	598	9.9745920	74	9.5469362	671	0.4530638	30	
25	0	9.5217074	597	9.9745697	74	9.5471377	671	0.4528623	0	35
	30	9.5218865	597	9.9745474	74	9.5473391	671	0.4526609	30	
26	0	9.5220656	597	9.9745252	75	9.5475405	671	0.4524595	0	34
	30	9.5222446	597	9.9745029	75	9.5477417	671	0.4522583	30	
27	0	9.5224235	596	9.9744806	75	9.5479430	670	0.4520570	0	33
	30	9.5226024	595	9.9744583	75	9.5481441	670	0.4518559	30	
28	0	9.5227811	596	9.9744359	74	9.5483452	670	0.4516548	0	32
	30	9.5229598	595	9.9744136	74	9.5485462	669	0.4514538	30	
29	0	9.5231383	596	9.9743913	75	9.5487471	669	0.4512529	0	31
	30	9.5233168	595	9.9743689	74	9.5489479	670	0.4510521	30	
30	0	9.5234953	10″ dif.	9.9743466	10″ d.	9.5491487	10″ dif.	0.4508513	0	30
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5234953	594	9.9743466	75	9.5491487	669	0.4508513	0	30
	30	9.5236736	594	9.9743242	75	9.5493494	669	0.4506506	30	
31	0	9.5238518	594	9.9743018	75	9.5495500	669	0.4504500	0	29
	30	9.5240300	594	9.9742794	75	9.5497506	668	0.4502494	30	
32	0	9.5242081	593	9.9742570	75	9.5499511	668	0.4500489	0	28
	30	9.5243861	593	9.9742346	75	9.5501515	668	0.4498485	30	
33	0	9.5245640	593	9.9742122	75	9.5503519	667	0.4496481	0	27
	30	9.5247419	593	9.9741897	75	9.5505521	668	0.4494479	30	
34	0	9.5249196	593	9.9741673	75	9.5507523	668	0.4492477	0	26
	30	9.5250973	592	9.9741448	75	9.5509525	667	0.4490475	30	
35	0	9.5252749	592	9.9741224	75	9.5511525	667	0.4488475	0	25
	30	9.5254524	592	9.9740999	75	9.5513525	667	0.4486475	30	
36	0	9.5256298	592	9.9740774	75	9.5515524	667	0.4484476	0	24
	30	9.5258072	591	9.9740549	75	9.5517523	666	0.4482477	30	
37	0	9.5259844	591	9.9740324	75	9.5519521	665	0.4480479	0	23
	30	9.5261616	591	9.9740099	75	9.5521518	665	0.4478482	30	
38	0	9.5263387	591	9.9739873	75	9.5523514	665	0.4476486	0	22
	30	9.5265158	589	9.9739648	75	9.5525510	665	0.4474490	30	
39	0	9.5266927	590	9.9739422	75	9.5527504	665	0.4472496	0	21
	30	9.5268696	589	9.9739197	75	9.5529499	664	0.4470501	30	
40	0	9.5270463	589	9.9738971	75	9.5531492	665	0.4468508	0	20
	30	9.5272230	589	9.9738745	75	9.5533485	664	0.4466515	30	
41	0	9.5273997	588	9.9738519	75	9.5535477	664	0.4464523	0	19
	30	9.5275762	588	9.9738293	75	9.5537468	664	0.4462532	30	
42	0	9.5277526	588	9.9738067	75	9.5539459	663	0.4460541	0	18
	30	9.5279290	588	9.9737841	75	9.5541449	663	0.4458551	30	
43	0	9.5281053	588	9.9737615	76	9.5543438	663	0.4456562	0	17
	30	9.5282815	587	9.9737388	75	9.5545427	663	0.4454573	30	
44	0	9.5284577	586	9.9737162	76	9.5547415	662	0.4452585	0	16
	30	9.5286337	587	9.9736935	75	9.5549402	662	0.4450598	30	
45	0	9.5288097	586	9.9736709	76	9.5551388	662	0.4448612	0	15
	30	9.5289856	586	9.9736482	76	9.5553374	662	0.4446626	30	
46	0	9.5291614	586	9.9736255	76	9.5555359	662	0.4444641	0	14
	30	9.5293371	586	9.9736028	76	9.5557343	662	0.4442657	30	
47	0	9.5295128	585	9.9735801	76	9.5559327	661	0.4440673	0	13
	30	9.5296883	585	9.9735573	75	9.5561310	661	0.4438690	30	
48	0	9.5298638	585	9.9735346	76	9.5563292	661	0.4436708	0	12
	30	9.5300392	585	9.9735118	75	9.5565274	660	0.4434726	30	
49	0	9.5302146	584	9.9734891	76	9.5567255	660	0.4432745	0	11
	30	9.5303898	584	9.9734663	76	9.5569235	660	0.4430765	30	
50	0	9.5305650	583	9.9734435	75	9.5571214	660	0.4428786	0	10
	30	9.5307401	583	9.9734208	76	9.5573193	659	0.4426807	30	
51	0	9.5309151	583	9.9733980	76	9.5575171	659	0.4424829	0	9
	30	9.5310900	583	9.9733752	77	9.5577149	658	0.4422851	30	
52	0	9.5312649	582	9.9733523	76	9.5579125	659	0.4420875	0	8
	30	9.5314396	583	9.9733295	76	9.5581101	659	0.4418899	30	
53	0	9.5316143	582	9.9733067	77	9.5583077	658	0.4416923	0	7
	30	9.5317889	582	9.9732838	76	9.5585051	658	0.4414949	30	
54	0	9.5319635	581	9.9732610	77	9.5587025	658	0.4412975	0	6
	30	9.5321379	581	9.9732381	76	9.5588998	658	0.4411002	30	
55	0	9.5323123	581	9.9732152	76	9.5590971	657	0.4409029	0	5
	30	9.5324866	581	9.9731923	76	9.5592943	657	0.4407057	30	
56	0	9.5326608	581	9.9731694	76	9.5594914	657	0.4405086	0	4
	30	9.5328349	581	9.9731465	76	9.5596884	657	0.4403116	30	
57	0	9.5330090	580	9.9731236	77	9.5598854	657	0.4401146	0	3
	30	9.5331830	579	9.9731006	76	9.5600823	657	0.4399177	30	
58	0	9.5333569	579	9.9730777	77	9.5602792	656	0.4397208	0	2
	30	9.5335307	579	9.9730547	76	9.5604760	655	0.4395240	30	
59	0	9.5337044	579	9.9730318	77	9.5606727	655	0.4393273	0	1
	30	9.5338781	579	9.9730088	77	9.5608693	655	0.4391307	30	
60	0	9.5340517	10″	9.9729858	10″	9.5610659	10″	0.4389341	0	0
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.5340517	578	9.9729858	76	9.5610659	655	0.4389341	0	60
	10	9.5342252	578	9.9729628	76	9.5612624	655	0.4387376	30	
1	0	9.5343986	578	9.9729398	77	9.5614588	655	0.4385412	0	59
	10	9.5345720	577	9.9729168	77	9.5616552	654	0.4383448	30	
2	0	9.5347452	578	9.9728938	77	9.5618515	654	0.4381485	0	58
	10	9.5349184	577	9.9728707	76	9.5620477	654	0.4379523	30	
3	0	9.5350915	577	9.9728477	77	9.5622439	653	0.4377561	0	57
	10	9.5352646	576	9.9728246	77	9.5624400	653	0.4375600	30	
4	0	9.5354375	577	9.9728016	77	9.5626360	653	0.4373640	0	56
	10	9.5356104	576	9.9727785	77	9.5628319	653	0.4371681	30	
5	0	9.5357832	576	9.9727554	77	9.5630278	653	0.4369722	0	55
	10	9.5359560	575	9.9727323	77	9.5632237	652	0.4367763	30	
6	0	9.5361286	575	9.9727092	77	9.5634194	653	0.4365806	0	54
	10	9.5363012	575	9.9726861	77	9.5636151	652	0.4363849	30	
7	0	9.5364737	574	9.9726629	77	9.5638107	652	0.4361893	0	53
	10	9.5366461	574	9.9726398	77	9.5640063	652	0.4359937	30	
8	0	9.5368184	574	9.9726166	77	9.5642018	652	0.4357982	0	52
	10	9.5369907	574	9.9725935	77	9.5643972	651	0.4356028	30	
9	0	9.5371629	573	9.9725703	77	9.5645925	650	0.4354075	0	51
	10	9.5373350	573	9.9725471	77	9.5647878	651	0.4352122	30	
10	0	9.5375070	573	9.9725239	77	9.5649831	650	0.4350169	0	50
	10	9.5376789	573	9.9725077	77	9.5651782	650	0.4348218	30	
11	0	9.5378508	573	9.9724775	77	9.5653733	650	0.4346267	0	49
	10	9.5380226	572	9.9724543	78	9.5655683	650	0.4344317	30	
12	0	9.5381943	572	9.9724310	77	9.5657633	649	0.4342367	0	48
	10	9.5383660	572	9.9724078	77	9.5659582	649	0.4340418	30	
13	0	9.5385375	572	9.9723845	77	9.5661530	649	0.4338470	0	47
	10	9.5387090	571	9.9723613	78	9.5663477	649	0.4336523	30	
14	0	9.5388804	571	9.9723380	78	9.5665424	649	0.4334576	0	46
	10	9.5390517	571	9.9723147	77	9.5667370	649	0.4332630	30	
15	0	9.5392230	571	9.9722914	78	9.5669316	648	0.4330684	0	45
	10	9.5393942	571	9.9722681	78	9.5671261	648	0.4328739	30	
16	0	9.5395653	570	9.9722448	78	9.5673205	648	0.4326795	0	44
	10	9.5397363	570	9.9722215	78	9.5675148	648	0.4324852	30	
17	0	9.5399073	569	9.9721981	78	9.5677091	648	0.4322909	0	43
	10	9.5400781	570	9.9721748	78	9.5679034	647	0.4320966	30	
18	0	9.5402489	569	9.9721514	78	9.5680975	647	0.4319025	0	42
	10	9.5404197	568	9.9721280	78	9.5682916	647	0.4317084	30	
19	0	9.5405903	569	9.9721047	78	9.5684856	647	0.4315144	0	41
	10	9.5407609	568	9.9720813	78	9.5686796	646	0.4313204	30	
20	0	9.5409314	568	9.9720579	78	9.5688735	646	0.4311265	0	40
	10	9.5411018	568	9.9720345	79	9.5690673	646	0.4309327	30	
21	0	9.5412721	568	9.9720110	78	9.5692611	646	0.4307389	0	39
	10	9.5414424	567	9.9719876	78	9.5694548	645	0.4305452	30	
22	0	9.5416126	567	9.9719642	79	9.5696484	645	0.4303516	0	38
	10	9.5417827	567	9.9719407	78	9.5698420	645	0.4301580	30	
23	0	9.5419527	567	9.9719172	78	9.5700355	645	0.4299645	0	37
	10	9.5421227	566	9.9718938	79	9.5702289	645	0.4297711	30	
24	0	9.5422926	566	9.9718703	79	9.5704223	644	0.4295777	0	36
	10	9.5424624	566	9.9718468	79	9.5706156	644	0.4293844	30	
25	0	9.5426321	566	9.9718233	79	9.5708088	644	0.4291912	0	35
	10	9.5428018	565	9.9717998	79	9.5710020	644	0.4289980	30	
26	0	9.5429713	566	9.9717762	79	9.5711951	644	0.4288049	0	34
	10	9.5431408	565	9.9717527	79	9.5713882	643	0.4286118	30	
27	0	9.5433103	564	9.9717291	78	9.5715811	644	0.4284189	0	33
	10	9.5434796	565	9.9717056	79	9.5717741	643	0.4282259	30	
28	0	9.5436489	564	9.9716820	79	9.5719669	643	0.4280331	0	32
	10	9.5438181	564	9.9716584	78	9.5721597	642	0.4278403	30	
29	0	9.5439873	563	9.9716348	78	9.5723524	642	0.4276476	0	31
	10	9.5441563	563	9.9716112	78	9.5725451	642	0.4274549	30	
30	0	9.5443253		9.9715876		9.5727377		0.4272623	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5443253	563	9.9715876	78	9.5727377	642	0.4272623	0	30
	30	9.5444942	563	9.9715540	79	9.5729302	642	0.4270698	30	
31	0	9.5446630	563	9.9715404	79	9.5731227	641	0.4268773	0	29
	30	9.5448318	562	9.9715167	79	9.5733151	641	0.4266849	30	
32	0	9.5450005	562	9.9714931	79	9.5735074	641	0.4264926	0	28
	30	9.5451691	562	9.9714694	79	9.5736997	640	0.4263003	30	
33	0	9.5453376	562	9.9714457	79	9.5738919	640	0.4261081	0	27
	30	9.5455061	561	9.9714221	79	9.5740840	641	0.4259160	30	
34	0	9.5456745	561	9.9713984	79	9.5742761	640	0.4257239	0	26
	30	9.5458428	561	9.9713747	80	9.5744681	640	0.4255319	30	
35	0	9.5460110	561	9.9713509	79	9.5746601	639	0.4253399	0	25
	30	9.5461792	560	9.9713272	79	9.5748520	639	0.4251480	30	
36	0	9.5463472	561	9.9713035	79	9.5750438	639	0.4249562	0	24
	30	9.5465153	559	9.9712797	79	9.5752355	639	0.4247645	30	
37	0	9.5466832	560	9.9712560	80	9.5754272	639	0.4245728	0	23
	30	9.5468511	559	9.9712322	79	9.5756189	638	0.4243811	30	
38	0	9.5470189	559	9.9712084	79	9.5758104	639	0.4241896	0	22
	30	9.5471866	559	9.9711846	79	9.5760019	639	0.4239981	30	
39	0	9.5473542	559	9.9711608	79	9.5761934	638	0.4238066	0	21
	30	9.5475218	558	9.9711370	79	9.5763848	637	0.4236152	30	
40	0	9.5476893	558	9.9711132	79	9.5765761	637	0.4234239	0	20
	30	9.5478567	558	9.9710894	80	9.5767673	638	0.4232327	30	
41	0	9.5480240	558	9.9710655	79	9.5769585	637	0.4230415	0	19
	30	9.5481913	558	9.9710417	80	9.5771496	637	0.4228504	30	
42	0	9.5483585	557	9.9710178	79	9.5773407	637	0.4226593	0	18
	30	9.5485256	557	9.9709939	79	9.5775317	637	0.4224683	30	
43	0	9.5486927	557	9.9709701	80	9.5777226	637	0.4222774	0	17
	30	9.5488597	556	9.9709462	80	9.5779135	636	0.4220865	30	
44	0	9.5490266	556	9.9709223	80	9.5781043	636	0.4218957	0	16
	30	9.5491934	556	9.9708983	79	9.5782951	636	0.4217049	30	
45	0	9.5493602	555	9.9708744	80	9.5784858	635	0.4215142	0	15
	30	9.5495269	556	9.9708505	80	9.5786764	635	0.4213236	30	
46	0	9.5496935	555	9.9708265	80	9.5788669	635	0.4211331	0	14
	30	9.5498600	555	9.9708026	80	9.5790574	635	0.4209426	30	
47	0	9.5500265	554	9.9707786	80	9.5792479	634	0.4207521	0	13
	30	9.5501929	554	9.9707546	80	9.5794382	635	0.4205618	30	
48	0	9.5503592	554	9.9707306	80	9.5796286	634	0.4203714	0	12
	30	9.5505254	554	9.9707066	80	9.5798188	634	0.4201812	30	
49	0	9.5506916	554	9.9706826	80	9.5800090	634	0.4199910	0	11
	30	9.5508577	554	9.9706586	80	9.5801991	634	0.4198009	30	
50	0	9.5510237	554	9.9706346	80	9.5803892	633	0.4196108	0	10
	30	9.5511897	553	9.9706105	80	9.5805792	633	0.4194208	30	
51	0	9.5513556	553	9.9705865	80	9.5807691	633	0.4192309	0	9
	30	9.5515214	553	9.9705624	80	9.5809590	633	0.4190410	30	
52	0	9.5516871	553	9.9705383	80	9.5811488	633	0.4188512	0	8
	30	9.5518528	552	9.9705143	81	9.5813385	633	0.4186615	30	
53	0	9.5520184	552	9.9704902	81	9.5815282	633	0.4184718	0	7
	30	9.5521839	552	9.9704661	81	9.5817179	632	0.4182821	30	
54	0	9.5523494	551	9.9704419	80	9.5819074	632	0.4180926	0	6
	30	9.5525148	551	9.9704178	80	9.5820969	632	0.4179031	30	
55	0	9.5526801	550	9.9703937	81	9.5822864	631	0.4177136	0	5
	30	9.5528453	551	9.9703695	80	9.5824758	631	0.4175242	30	
56	0	9.5530106	550	9.9703454	81	9.5826651	631	0.4173349	0	4
	30	9.5531755	551	9.9703212	80	9.5828543	631	0.4171457	30	
57	0	9.5533406	550	9.9702970	80	9.5830435	631	0.4169565	0	3
	30	9.5535055	550	9.9702728	80	9.5832327	630	0.4167673	30	
58	0	9.5536704	549	9.9702486	80	9.5834217	631	0.4165783	0	2
	30	9.5538352	549	9.9702244	80	9.5836108	629	0.4163892	30	
59	0	9.5539999	549	9.9702002	81	9.5837997	630	0.4162003	0	1
	30	9.5541646	548	9.9701760	81	9.5839886	629	0.4160114	30	
60	0	9.5543292		9.9701517		9.5841774		0.4158226	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.5543292	548	9.9701517	80	9.5841774	630	0.4158226	0	60
	30	9.5544937	548	9.9701275	81	9.5843662	629	0.4156338	30	
1	0	9.5546581	548	9.9701032	81	9.5845549	629	0.4154451	0	59
	30	9.5548225	548	9.9700789	80	9.5847436	629	0.4152565	30	
2	0	9.5549868	547	9.9700547	81	9.5849321	629	0.4150679	0	58
	30	9.5551510	548	9.9700304	81	9.5851207	628	0.4148793	30	
3	0	9.5553152	547	9.9700061	81	9.5853091	628	0.4146909	0	57
	30	9.5554793	547	9.9699818	82	9.5854975	628	0.4145025	30	
4	0	9.5556433	546	9.9699574	81	9.5856859	627	0.4143141	0	56
	30	9.5558072	547	9.9699331	81	9.5858742	627	0.4141258	30	
5	0	9.5559711	546	9.9699087	81	9.5860624	627	0.4139376	0	55
	30	9.5561349	546	9.9698844	81	9.5862505	627	0.4137495	30	
6	0	9.5562987	545	9.9698600	81	9.5864386	627	0.4135614	0	54
	30	9.5564623	545	9.9698356	82	9.5866267	626	0.4133733	30	
7	0	9.5566259	545	9.9698112	81	9.5868147	626	0.4131853	0	53
	30	9.5567894	545	9.9697868	81	9.5870026	626	0.4129974	30	
8	0	9.5569529	544	9.9697624	81	9.5871904	626	0.4128095	0	52
	30	9.5571163	544	9.9697380	81	9.5873782	626	0.4126218	30	
9	0	9.5572796	544	9.9697136	82	9.5875660	625	0.4124340	0	51
	30	9.5574428	544	9.9696891	81	9.5877537	625	0.4122463	30	
10	0	9.5576060	543	9.9696647	82	9.5879413	625	0.4120587	0	50
	30	9.5577691	543	9.9696402	81	9.5881288	625	0.4118712	30	
11	0	9.5579321	543	9.9696158	82	9.5883163	625	0.4116837	0	49
	30	9.5580950	543	9.9695913	82	9.5885038	624	0.4114962	03	
12	0	9.5582579	543	9.9695668	82	9.5886912	624	0.4113088	0	48
	30	9.5584207	543	9.9695423	82	9.5888785	624	0.4111215	30	
13	0	9.5585835	542	9.9695177	81	9.5890657	624	0.4109343	0	47
	30	9.5587462	542	9.9694932	82	9.5892529	624	0.4107471	30	
14	0	9.5589088	542	9.9694687	82	9.5894401	624	0.4105599	0	46
	30	9.5590713	542	9.9694441	81	9.5896272	623	0.4103728	30	
15	0	9.5592338	541	9.9694196	82	9.5898142	623	0.4101858	0	45
	30	9.5593962	541	9.9693950	82	9.5900012	623	0.4099988	30	
16	0	9.5595585	541	9.9693704	82	9.5901881	622	0.4098119	0	44
	30	9.5597207	541	9.9693458	82	9.5903749	623	0.4096251	30	
17	0	9.5598829	541	9.9693212	82	9.5905617	622	0.4094383	0	43
	30	9.5600450	541	9.9692966	82	9.5907484	622	0.4092516	30	
18	0	9.5602071	540	9.9692720	82	9.5909351	622	0.4090649	0	42
	30	9.5603691	539	9.9692474	82	9.5911217	622	0.4088783	30	
19	0	9.5605310	539	9.9692227	82	9.5913082	622	0.4086918	0	41
	30	9.5606928	539	9.9691981	82	9.5914947	622	0.4085053	30	
20	0	9.5608546	539	9.9691734	82	9.5916812	621	0.4083188	0	40
	30	9.5610163	539	9.9691487	82	9.5918675	622	0.4081325	30	
21	0	9.5611779	539	9.9691241	83	9.5920539	620	0.4079461	0	39
	30	9.5613395	538	9.9690994	83	9.5922401	621	0.4077599	30	
22	0	9.5615010	538	9.9690746	82	9.5924263	621	0.4075737	0	38
	30	9.5616624	538	9.9690499	82	9.5926124	621	0.4073876	30	
23	0	9.5618237	538	9.9690252	82	9.5927985	620	0.4072015	0	37
	30	9.5619850	538	9.9690005	83	9.5929846	619	0.4070154	30	
24	0	9.5621462	538	9.9689757	82	9.5931705	620	0.4068295	0	36
	30	9.5623074	537	9.9689510	83	9.5933564	620	0.4066436	30	
25	0	9.5624685	536	9.9689262	83	9.5935423	619	0.4064577	0	35
	30	9.5626295	530	9.9689014	83	9.5937281	619	0.4062719	30	
26	0	9.5627904	536	9.9688766	83	9.5939138	619	0.4060862	0	34
	30	9.5629513	536	9.9688518	83	9.5940995	618	0.4059005	30	
27	0	9.5631121	536	9.9688270	83	9.5942851	618	0.4057149	0	33
	30	9.5632728	536	9.9688022	83	9.5944706	619	0.4055294	30	
28	0	9.5634335	535	9.9687773	82	9.5946561	618	0.4053439	0	32
	30	9.5635941	535	9.9687525	83	9.5948416	618	0.4051584	30	
29	0	9.5637546	535	9.9687276	82	9.5950269	618	0.4049731	0	31
	30	9.5639150	535	9.9687028	83	9.5952123	617	0.4047877	30	
30	0	9.5640754		9.9686779		9.5953975		0.4046025	0	30
			10″		10″		10″			
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5443253	563	9.7715876	78	9.7727377	642	0.4272623	0	30
	30	9.5444942	563	9.7715640	79	9.7729302	642	0.4270698	30	
31	0	9.5446630	563	9.7715404	79	9.7731227	641	0.4268773	0	29
	30	9.5448318	562	9.7715167	79	9.7733151	641	0.4266849	30	
32	0	9.5450005	562	9.7714931	79	9.7735074	641	0.4264926	0	28
	30	9.5451691	562	9.7714694	79	9.7736997	640	0.4263003	30	
33	0	9.5453376	562	9.7714457	79	9.7738919	640	0.4261081	0	27
	30	9.5455061	561	9.7714221	79	9.7740840	640	0.4259160	30	
34	0	9.5456745	561	9.7713984	79	9.7742761	640	0.4257239	0	26
	30	9.5458428	561	9.7713747	80	9.7744681	640	0.4255319	30	
35	0	9.5460110	561	9.7713509	79	9.7746601	639	0.4253399	0	25
	30	9.5461792	560	9.7713272	79	9.7748520	639	0.4251480	30	
36	0	9.5463472	561	9.7713035	79	9.7750438	639	0.4249562	0	24
	30	9.5465153	559	9.7712797	79	9.7752355	639	0.4247645	30	
37	0	9.5466832	560	9.7712560	80	9.7754272	639	0.4245728	0	23
	30	9.5468511	559	9.7712322	79	9.7756189	638	0.4243811	30	
38	0	9.5470189	559	9.7712084	79	9.7758104	639	0.4241896	0	22
	30	9.5471866	559	9.7711846	79	9.7760019	639	0.4239981	30	
39	0	9.5473542	559	9.7711608	79	9.7761934	638	0.4238066	0	21
	30	9.5475218	558	9.7711370	79	9.7763848	637	0.4236152	30	
40	0	9.5476893	558	9.7711132	79	9.7765761	637	0.4234239	0	20
	30	9.5478567	558	9.7710894	80	9.7767673	638	0.4232327	30	
41	0	9.5480240	558	9.7710655	79	9.7769585	637	0.4230415	0	19
	30	9.5481913	558	9.7710417	80	9.7771496	637	0.4228504	30	
42	0	9.5483585	557	9.7710178	79	9.7773407	637	0.4226593	0	18
	30	9.5485256	557	9.7709939	79	9.7775317	637	0.4224683	30	
43	0	9.5486927	557	9.7709701	80	9.7777226	637	0.4222774	0	17
	30	9.5488597	556	9.7709462	80	9.7779135	636	0.4220865	30	
44	0	9.5490266	556	9.7709223	80	9.7781043	636	0.4218957	0	16
	30	9.5491934	556	9.7708983	79	9.7782951	636	0.4217049	30	
45	0	9.5493602	555	9.7708744	80	9.7784858	635	0.4215142	0	15
	30	9.5495269	556	9.7708505	80	9.7786764	635	0.4213236	30	
46	0	9.5496935	555	9.7708265	80	9.7788669	635	0.4211331	0	14
	30	9.5498600	555	9.7708026	80	9.7790574	635	0.4209426	30	
47	0	9.5500265	554	9.7707786	80	9.7792479	634	0.4207521	0	13
	30	9.5501929	554	9.7707546	80	9.7794382	635	0.4205618	30	
48	0	9.5503592	554	9.7707306	80	9.7796286	634	0.4203714	0	12
	30	9.5505254	554	9.7707066	80	9.7798188	634	0.4201812	30	
49	0	9.5506916	554	9.7706826	80	9.7800090	634	0.4199910	0	11
	30	9.5508577	554	9.7706586	80	9.7801991	634	0.4198009	30	
50	0	9.5510237	554	9.7706346	80	9.7803892	633	0.4196108	0	10
	30	9.5511897	553	9.7706105	80	9.7805792	633	0.4194208	30	
51	0	9.5513556	553	9.7705865	80	9.7807691	633	0.4192309	0	9
	30	9.5515214	553	9.7705624	80	9.7809590	633	0.4190410	30	
52	0	9.5516871	553	9.7705383	80	9.7811488	633	0.4188512	0	8
	30	9.5518528	552	9.7705143	81	9.7813385	633	0.4186615	30	
53	0	9.5520184	552	9.7704902	81	9.7815282	633	0.4184718	0	7
	30	9.5521839	552	9.7704661	81	9.7817179	632	0.4182821	30	
54	0	9.5523494	551	9.7704419	80	9.7819074	632	0.4180926	0	6
	30	9.5525148	551	9.7704178	80	9.7820969	632	0.4179031	30	
55	0	9.5526801	550	9.7703937	81	9.7822864	631	0.4177136	0	5
	30	9.5528453	551	9.7703695	80	9.7824758	631	0.4175242	30	
56	0	9.5530106	550	9.7703454	81	9.7826651	631	0.4173349	0	4
	30	9.5531755	551	9.7703212	80	9.7828543	631	0.4171457	30	
57	0	9.5533406	550	9.7702970	80	9.7830435	631	0.4169565	0	3
	30	9.5535055	550	9.7702728	80	9.7832327	630	0.4167673	30	
58	0	9.5536704	549	9.7702486	80	9.7834217	631	0.4165783	0	2
	30	9.5538352	549	9.7702244	80	9.7836108	629	0.4163892	30	
59	0	9.5539999	549	9.7702002	81	9.7837997	630	0.4162003	0	1
	30	9.5541646	548	9.7701760	81	9.7839886	629	0.4160114	30	
60	0	9.5543292		9.7701517		9.7841774		0.4158226	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.5543292	548	9.9701517	80	9.5841774	630	0.4158226	0	60
	30	9.5544837	548	9.9701275	81	9.5843562	629	0.4156338	30	
1	0	9.5546381	548	9.9701032	81	9.5845349	629	0.4154451	0	59
	30	9.5548225	548	9.9700789	80	9.5847135	629	0.4152565	30	
2	0	9.5549868	547	9.9700547	81	9.5849321	629	0.4150679	0	58
	30	9.5551510	548	9.9700304	81	9.5851207	628	0.4148793	30	
3	0	9.5553152	547	9.9700061	81	9.5853091	628	0.4146909	0	57
	30	9.5554793	547	9.9699818	82	9.5854975	628	0.4145025	30	
4	0	9.5556433	546	9.9699574	81	9.5856859	627	0.4143141	0	56
	30	9.5558072	547	9.9699331	81	9.5858742	627	0.4141258	30	
5	0	9.5559711	546	9.9699087	81	9.5860624	627	0.4139376	0	55
	30	9.5561349	546	9.9698844	81	9.5862505	627	0.4137495	30	
6	0	9.5562987	545	9.9698600	81	9.5864386	627	0.4135614	0	54
	30	9.5564623	545	9.9698356	81	9.5866267	626	0.4133733	30	
7	0	9.5566259	545	9.9698112	81	9.5868147	626	0.4131853	0	53
	30	9.5567894	545	9.9697868	81	9.5870026	626	0.4129974	30	
8	0	9.5569529	544	9.9697624	81	9.5871904	626	0.4128096	0	52
	30	9.5571163	544	9.9697380	81	9.5873782	626	0.4126218	30	
9	0	9.5572796	544	9.9697136	82	9.5875660	625	0.4124340	0	51
	30	9.5574428	544	9.9696891	81	9.5877537	625	0.4122463	30	
10	0	9.5576060	543	9.9696647	82	9.5879413	625	0.4120587	0	50
	30	9.5577691	543	9.9696402	81	9.5881288	625	0.4118712	30	
11	0	9.5579321	543	9.9696158	82	9.5883163	625	0.4116837	0	49
	30	9.5580950	543	9.9695913	82	9.5885038	624	0.4114962	03	
12	0	9.5582579	543	9.9695668	82	9.5886912	624	0.4113088	0	48
	30	9.5584207	543	9.9695423	82	9.5888785	624	0.4111215	30	
13	0	9.5585835	542	9.9695177	81	9.5890657	624	0.4109343	0	47
	30	9.5587462	542	9.9694932	82	9.5892529	624	0.4107471	30	
14	0	9.5589088	542	9.9694687	82	9.5894401	624	0.4105599	0	46
	30	9.5590713	542	9.9694441	81	9.5896272	623	0.4103728	30	
15	0	9.5592338	541	9.9694196	82	9.5898142	623	0.4101858	0	45
	30	9.5593962	541	9.9693950	82	9.5900012	623	0.4099988	30	
16	0	9.5595585	541	9.9693704	82	9.5901881	622	0.4098119	0	44
	30	9.5597207	541	9.9693458	82	9.5903749	623	0.4096251	30	
17	0	9.5598829	541	9.9693212	82	9.5905617	622	0.4094383	0	43
	30	9.5600450	541	9.9692966	82	9.5907484	622	0.4092516	30	
18	0	9.5602071	540	9.9692720	82	9.5909351	622	0.4090649	0	42
	30	9.5603691	539	9.9692474	82	9.5911217	622	0.4088783	30	
19	0	9.5605310	539	9.9692227	82	9.5913082	622	0.4086918	0	41
	30	9.5606928	539	9.9691981	82	9.5914947	622	0.4085053	30	
20	0	9.5608546	539	9.9691734	82	9.5916812	621	0.4083188	0	40
	30	9.5610163	539	9.9691487	82	9.5918675	622	0.4081325	30	
21	0	9.5611779	539	9.9691241	83	9.5920539	620	0.4079461	0	39
	30	9.5613395	538	9.9690994	83	9.5922401	621	0.4077599	30	
22	0	9.5615010	538	9.9690746	82	9.5924263	621	0.4075737	0	38
	30	9.5616624	538	9.9690499	82	9.5926124	621	0.4073876	30	
23	0	9.5618237	538	9.9690252	82	9.5927985	620	0.4072015	0	37
	30	9.5619850	538	9.9690005	83	9.5929846	619	0.4070154	30	
24	0	9.5621462	538	9.9689757	82	9.5931705	620	0.4068295	0	36
	30	9.5623074	537	9.9689510	83	9.5933564	620	0.4066436	30	
25	0	9.5624685	536	9.9689262	83	9.5935423	619	0.4064577	0	35
	30	9.5626295	536	9.9689014	83	9.5937281	619	0.4062719	30	
26	0	9.5627904	536	9.9688766	83	9.5939138	619	0.4060862	0	34
	30	9.5629513	536	9.9688518	83	9.5940995	618	0.4059005	30	
27	0	9.5631121	536	9.9688270	83	9.5942851	618	0.4057149	0	33
	30	9.5632728	536	9.9688022	83	9.5944706	619	0.4055294	30	
28	0	9.5634335	535	9.9687773	82	9.5946561	618	0.4053439	0	32
	30	9.5635941	535	9.9687525	83	9.5948416	618	0.4051584	30	
29	0	9.5637546	535	9.9687276	82	9.5950269	618	0.4049731	0	31
	30	9.5639150	535	9.9687028	83	9.5952123	617	0.4047877	30	
30	0	9.5640754	10″ dif.	9.9686779	10″ d.	9.5953975	10″ dif.	0.4046025	0	30
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5540754	535	9.9686779	83	9.5853975	618	0.4046025	0	30
	30	9.5543358	534	9.9686530	83	9.5856827	618	0.4044173	30	
31	0	9.5543960	534	9.9686281	83	9.5857679	617	0.4042321	0	29
	30	9.5545562	534	9.9686032	83	9.5859530	617	0.4040470	30	
32	0	9.5547163	534	9.9685783	83	9.5861380	617	0.4038620	0	28
	30	9.5548764	533	9.9685534	84	9.5863230	616	0.4036770	30	
33	0	9.5550363	533	9.9685284	83	9.5865079	616	0.4034921	0	27
	30	9.5551962	533	9.9685035	83	9.5866928	616	0.4033072	30	
34	0	9.5553561	533	9.9684785	83	9.5868776	616	0.4031224	0	26
	30	9.5555159	532	9.9684535	83	9.5870623	616	0.4029377	30	
35	0	9.5556756	532	9.9684286	84	9.5872470	616	0.4027530	0	25
	30	9.5558352	532	9.9684036	84	9.5874317	615	0.4025683	30	
36	0	9.5559948	532	9.9683786	84	9.5876162	615	0.4023838	0	24
	30	9.5561543	531	9.9683535	83	9.5878007	615	0.4021993	30	
37	0	9.5563137	532	9.9683285	83	9.5879852	615	0.4020148	0	23
	30	9.5564731	531	9.9683035	84	9.5881696	615	0.4018304	30	
38	0	9.5566324	531	9.9682784	83	9.5883540	614	0.4016460	0	22
	30	9.5567916	531	9.9682534	84	9.5885382	615	0.4014618	30	
39	0	9.5569508	530	9.9682283	83	9.5887225	614	0.4012775	0	21
	30	9.5571099	530	9.9682032	83	9.5889067	613	0.4010933	30	
40	0	9.5572689	530	9.9681781	83	9.5990908	613	0.4009092	0	20
	30	9.5574279	530	9.9681530	83	9.5992748	614	0.4007252	30	
41	0	9.5575868	529	9.9681279	83	9.5994588	614	0.4005412	0	19
	30	9.5577456	529	9.9681028	84	9.5996428	613	0.4003572	30	
42	0	9.5579044	529	9.9680777	84	9.5998267	613	0.4001733	0	18
	30	9.5580631	529	9.9680525	83	9.6000105	613	0.3999895	30	
43	0	9.5582217	529	9.9680274	84	9.6001943	613	0.3998057	0	17
	30	9.5583803	528	9.9680022	84	9.6003780	613	0.3996220	30	
44	0	9.5585387	529	9.9679771	84	9.6005617	612	0.3994383	0	16
	30	9.5586972	528	9.9679519	84	9.6007453	612	0.3992547	30	
45	0	9.5588555	528	9.9679267	84	9.6009289	611	0.3990711	0	15
	30	9.5590138	528	9.9679015	84	9.6011124	611	0.3988876	30	
46	0	9.5591721	527	9.9678763	85	9.6012958	611	0.3987042	0	14
	30	9.5593302	527	9.9678510	84	9.6014792	611	0.3985208	30	
47	0	9.5594883	527	9.9678258	84	9.6016625	611	0.3983375	0	13
	30	9.5596463	527	9.9678005	84	9.6018458	611	0.3981542	30	
48	0	9.5598043	526	9.9677753	84	9.6020290	611	0.3979710	0	12
	30	9.5599622	526	9.9677500	84	9.6022122	610	0.3977878	30	
49	0	9.5701200	526	9.9677247	84	9.6023953	610	0.3976047	0	11
	30	9.5704778	525	9.9676994	84	9.6025783	610	0.3974217	30	
50	0	9.5704355	525	9.9676741	84	9.6027613	610	0.3972387	0	10
	30	9.5705931	525	9.9676488	84	9.6029443	609	0.3970557	30	
51	0	9.5707506	525	9.9676235	84	9.6031271	610	0.3968729	0	9
	30	9.5709081	525	9.9675982	85	9.6033100	609	0.3966900	30	
52	0	9.5710656	524	9.9675728	84	9.6034927	609	0.3965073	0	8
	30	9.5712229	525	9.9675475	85	9.6036755	608	0.3963245	30	
53	0	9.5713802	524	9.9675221	85	9.6038581	609	0.3961419	0	7
	30	9.5715374	524	9.9674967	84	9.6040407	609	0.3959593	30	
54	0	9.5716946	524	9.9674713	84	9.6042233	608	0.3957767	0	6
	30	9.5718517	524	9.9674459	84	9.6044058	608	0.3955942	30	
55	0	9.5720087	524	9.9674205	84	9.6045882	608	0.3954118	0	5
	30	9.5721657	523	9.9673950	85	9.6047706	608	0.3952294	30	
56	0	9.5723226	523	9.9673697	85	9.6049529	608	0.3950471	0	4
	30	9.5724794	523	9.9673442	84	9.6051352	607	0.3948648	30	
57	0	9.5726362	522	9.9673188	85	9.6053174	607	0.3946826	0	3
	30	9.5727929	522	9.9672933	85	9.6054996	607	0.3945004	30	
58	0	9.5729495	522	9.9672679	85	9.6056817	607	0.3943183	0	2
	30	9.5731061	522	9.9672424	85	9.6058637	607	0.3941363	30	
59	0	9.5732626	522	9.9672169	85	9.6060457	607	0.3939543	0	1
	30	9.5734190	522	9.9671914	85	9.6062277	606	0.3937723	30	
60	0	9.5735754		9.9671659		9.6064096		0.3935904	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.5735754	521	9.9671659	85	9.6064096	606	0.3935904	0	60
	30	9.5737317	521	9.9671403	85	9.6065914	606	0.3934086	30	
1	0	9.5738880	520	9.9671148	85	9.6067732	605	0.3932268	0	59
	30	9.5740441	521	9.9670893	86	9.6069549	606	0.3930451	30	
2	0	9.5742003	520	9.9670637	85	9.6071366	605	0.3928634	0	58
	30	9.5743563	520	9.9670381	85	9.6073182	605	0.3926818	30	
3	0	9.5745123	520	9.9670125	85	9.6074997	605	0.3925003	0	57
	30	9.5746682	520	9.9669870	86	9.6076812	605	0.3923188	30	
4	0	9.5748240	520	9.9669614	86	9.6078627	605	0.3921373	0	56
	30	9.5749798	519	9.9669357	85	9.6080441	604	0.3919559	30	
5	0	9.5751356	518	9.9669101	85	9.6082254	605	0.3917746	0	55
	30	9.5752912	519	9.9668845	86	9.6084067	604	0.3915933	30	
6	0	9.5754468	518	9.9668588	85	9.6085880	604	0.3914120	0	54
	30	9.5756023	519	9.9668332	86	9.6087691	604	0.3912309	30	
7	0	9.5757578	518	9.9668075	85	9.6089503	603	0.3910497	0	53
	30	9.5759132	518	9.9667818	85	9.6091313	604	0.3908687	30	
8	0	9.5760685	518	9.9667562	86	9.6093124	603	0.3906876	0	52
	30	9.5762238	517	9.9667305	86	9.6094933	603	0.3905067	30	
9	0	9.5763790	517	9.9667048	85	9.6096742	603	0.3903258	0	51
	30	9.5765341	517	9.9666790	85	9.6098551	603	0.3901449	30	
10	0	9.5766892	517	9.9666533	86	9.6100359	602	0.3899641	0	50
	30	9.5768442	517	9.9666276	86	9.6102166	603	0.3897834	30	
11	0	9.5769991	517	9.9666018	86	9.6103973	602	0.3896027	0	49
	30	9.5771540	516	9.9665761	86	9.6105780	602	0.3894220	30	
12	0	9.5773088	516	9.9665503	86	9.6107586	601	0.3892414	0	48
	30	9.5774636	516	9.9665245	86	9.6109391	601	0.3890609	30	
13	0	9.5776183	515	9.9664987	86	9.6111196	601	0.3888804	0	47
	30	9.5777729	515	9.9664729	86	9.6113000	601	0.3887000	30	
14	0	9.5779275	515	9.9664471	86	9.6114804	601	0.3885196	0	46
	30	9.5780819	515	9.9664213	86	9.6116607	601	0.3883393	30	
15	0	9.5782364	514	9.9663954	86	9.6118409	601	0.3881591	0	45
	30	9.5783907	515	9.9663696	86	9.6120212	600	0.3879788	30	
16	0	9.5785450	515	9.9663437	86	9.6122013	601	0.3877987	0	44
	30	9.5786993	514	9.9663179	87	9.6123814	600	0.3876186	30	
17	0	9.5788535	513	9.9662920	87	9.6125615	600	0.3874385	0	43
	30	9.5790076	513	9.9662661	86	9.6127415	600	0.3872585	30	
18	0	9.5791616	513	9.9662402	87	9.6129214	600	0.3870786	0	42
	30	9.5793156	513	9.9662143	87	9.6131013	600	0.3868987	30	
19	0	9.5794695	513	9.9661884	87	9.6132812	599	0.3867188	0	41
	30	9.5796234	512	9.9661624	86	9.6134609	600	0.3865391	30	
20	0	9.5797772	512	9.9661365	87	9.6136407	599	0.3863593	0	40
	30	9.5799309	512	9.9661106	86	9.6138204	598	0.3861796	30	
21	0	9.5800845	512	9.9660846	87	9.6140000	598	0.3860000	0	39
	30	9.5802381	512	9.9660586	87	9.6141796	598	0.3858204	30	
22	0	9.5803917	511	9.9660326	87	9.6143591	598	0.3856409	0	38
	30	9.5805452	511	9.9660066	87	9.6145386	598	0.3854614	30	
23	0	9.5806986	511	9.9659806	87	9.6147180	598	0.3852820	0	37
	30	9.5808519	511	9.9659546	87	9.6148973	598	0.3851027	30	
24	0	9.5810052	511	9.9659285	86	9.6150766	598	0.3849234	0	36
	30	9.5811584	511	9.9659025	87	9.6152559	598	0.3847441	30	
25	0	9.5813116	510	9.9658764	86	9.6154351	597	0.3845649	0	35
	30	9.5814647	510	9.9658504	87	9.6156143	597	0.3843857	30	
26	0	9.5816177	510	9.9658243	87	9.6157934	597	0.3842066	0	34
	30	9.5817707	509	9.9657982	87	9.6159724	597	0.3840276	30	
27	0	9.5819236	509	9.9657721	87	9.6161514	597	0.3838486	0	33
	30	9.5820764	509	9.9657460	87	9.6163304	596	0.3836696	30	
28	0	9.5822292	509	9.9657199	87	9.6165093	596	0.3834907	0	32
	30	9.5823819	509	9.9656938	87	9.6166881	596	0.3833119	30	
29	0	9.5825345	509	9.9656677	88	9.6168669	596	0.3831331	0	31
	30	9.5826871	509	9.9656416	87	9.6170456	596	0.3829544	30	
30	0	9.5828397		9.9656153		9.6172243		0.3827757	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.5828397	508	9.9656153	87	9.6172243	596	0.3827757	0	30
	30	9.5829921	508	9.9655892	87	9.6174029	596	0.3825971	30	
31	0	9.5831445	508	9.9655630	87	9.6175815	595	0.3824185	0	29
	30	9.5832969	507	9.9655368	87	9.6177601	595	0.3822399	30	
32	0	9.5834491	508	9.9655106	87	9.6179385	595	0.3820615	0	28
	30	9.5836014	507	9.9654844	87	9.6181170	594	0.3818830	30	
33	0	9.5837535	507	9.9654582	88	9.6182953	595	0.3817047	0	27
	30	9.5839056	507	9.9654319	87	9.6184737	594	0.3815263	30	
34	0	9.5840576	507	9.9654057	88	9.6186519	594	0.3813481	0	26
	30	9.5842096	506	9.9653794	87	9.6188301	594	0.3811699	30	
35	0	9.5843615	506	9.9653532	88	9.6190083	594	0.3809917	0	25
	30	9.5845133	506	9.9653269	88	9.6191864	594	0.3808136	30	
36	0	9.5846651	506	9.9653006	88	9.6193645	593	0.3806355	0	24
	30	9.5848168	506	9.9652743	88	9.6195425	593	0.3804575	30	
37	0	9.5849685	505	9.9652480	88	9.6197205	593	0.3802795	0	23
	30	9.5851201	505	9.9652217	88	9.6198984	593	0.3801016	30	
38	0	9.5852716	505	9.9651953	87	9.6200762	593	0.3799238	0	22
	30	9.5854230	505	9.9651690	88	9.6202540	593	0.3797460	30	
39	0	9.5855745	504	9.9651426	87	9.6204318	592	0.3795682	0	21
	30	9.5857258	504	9.9651163	88	9.6206095	592	0.3793905	30	
40	0	9.5858771	504	9.9650899	88	9.6207872	592	0.3792128	0	20
	30	9.5860283	504	9.9650635	88	9.6209648	592	0.3790352	30	
41	0	9.5861795	503	9.9650371	88	9.6211423	592	0.3788577	0	19
	30	9.5863305	504	9.9650107	88	9.6213198	592	0.3786802	30	
42	0	9.5864816	503	9.9649843	88	9.6214970	591	0.3785027	0	18
	30	9.5866325	504	9.9649579	88	9.6216747	591	0.3783253	30	
43	0	9.5867835	502	9.9649314	88	9.6218520	591	0.3781480	0	17
	30	9.5869343	503	9.9649050	88	9.6220293	591	0.3779707	30	
44	0	9.5870851	502	9.9648785	88	9.6222066	590	0.3777934	0	16
	30	9.5872358	502	9.9648521	89	9.6223838	590	0.3776162	30	
45	0	9.5873865	502	9.9648256	89	9.6225609	590	0.3774391	0	15
	30	9.5875371	502	9.9647991	89	9.6227380	590	0.3772620	30	
46	0	9.5876876	502	9.9647726	89	9.6229150	590	0.3770850	0	14
	30	9.5878381	502	9.9647461	89	9.6230920	590	0.3769080	30	
47	0	9.5879885	501	9.9647196	88	9.6232690	590	0.3767310	0	13
	30	9.5881389	501	9.9646930	88	9.6234459	589	0.3765541	30	
48	0	9.5882892	501	9.9646665	89	9.6236227	590	0.3763773	0	12
	30	9.5884394	501	9.9646399	89	9.6237995	589	0.3762005	30	
49	0	9.5885896	500	9.9646133	88	9.6239763	589	0.3760237	0	11
	30	9.5887397	500	9.9645868	89	9.6241529	589	0.3758471	30	
50	0	9.5888897	500	9.9645602	89	9.6243296	589	0.3756704	0	10
	30	9.5890397	500	9.9645336	89	9.6245062	588	0.3754938	30	
51	0	9.5891897	499	9.9645069	88	9.6246827	589	0.3753173	0	9
	30	9.5893395	500	9.9644803	89	9.6248592	588	0.3751408	30	
52	0	9.5894893	500	9.9644537	89	9.6250356	589	0.3749644	0	8
	30	9.5896391	499	9.9644270	88	9.6252120	588	0.3747880	30	
53	0	9.5897888	499	9.9644004	89	9.6253884	588	0.3746116	0	7
	30	9.5899384	499	9.9643737	89	9.6255647	587	0.3744353	30	
54	0	9.5900880	498	9.9643470	88	9.6257409	587	0.3742591	0	6
	30	9.5902375	498	9.9643204	89	9.6259171	587	0.3740829	30	
55	0	9.5903869	498	9.9642937	89	9.6260932	587	0.3739068	0	5
	30	9.5905363	498	9.9642670	90	9.6262693	587	0.3737307	30	
56	0	9.5906856	498	9.9642402	89	9.6264454	586	0.3735546	0	4
	30	9.5908349	497	9.9642135	89	9.6266214	586	0.3733786	30	
57	0	9.5909841	497	9.9641868	90	9.6267973	587	0.3732027	0	3
	30	9.5911332	497	9.9641600	89	9.6269732	586	0.3730268	30	
58	0	9.5912823	497	9.9641332	89	9.6271491	586	0.3728509	0	2
	30	9.5914313	497	9.9641065	90	9.6273248	586	0.3726752	30	
59	0	9.5915803	497	9.9640797	89	9.6275006	586	0.3724994	0	1
	30	9.5917292	496	9.9640529	89	9.6276763	585	0.3723237	30	
60	0	9.5918780	496	9.9640261		9.6278519		0.3721481	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.5918780	496	9.9640261	90	9.6278519	586	0.3721481	0	60
	30	9.5920268	496	9.9639993	90	9.6280275	585	0.3719725	30	
1	0	9.5921756	496	9.9639724	89	9.6282031	585	0.3717969	0	59
	30	9.5923242	495	9.9639456	90	9.6283786	585	0.3716214	30	
2	0	9.5924728	495	9.9639187	89	9.6285540	585	0.3714460	0	58
	30	9.5926213	495	9.9638919	90	9.6287294	585	0.3712706	30	
3	0	9.5927698	495	9.9638650	89	9.6289048	584	0.3710952	0	57
	30	9.5929182	495	9.9638381	89	9.6290801	584	0.3709199	30	
4	0	9.5930666	494	9.9638112	89	9.6292553	584	0.3707447	0	56
	30	9.5932149	494	9.9637843	89	9.6294305	584	0.3705695	30	
5	0	9.5933631	494	9.9637574	90	9.6296057	584	0.3703943	0	55
	30	9.5935113	494	9.9637305	90	9.6297808	583	0.3702192	30	
6	0	9.5936594	494	9.9637036	90	9.6299558	584	0.3700442	0	54
	30	9.5938075	493	9.9636766	90	9.6301308	584	0.3698692	30	
7	0	9.5939555	493	9.9636496	89	9.6303058	583	0.3696942	0	53
	30	9.5941034	493	9.9636227	90	9.6304807	583	0.3695193	30	
8	0	9.5942513	493	9.9635957	90	9.6306556	583	0.3693444	0	52
	30	9.5943991	493	9.9635687	90	9.6308304	583	0.3691696	30	
9	0	9.5945469	492	9.9635417	90	9.6310052	582	0.3689948	0	51
	30	9.5946946	492	9.9635147	90	9.6311799	582	0.3688201	30	
10	0	9.5948422	492	9.9634877	90	9.6313545	582	0.3686455	0	50
	30	9.5949898	492	9.9634606	90	9.6315292	582	0.3684708	30	
11	0	9.5951373	492	9.9634336	90	9.6317037	582	0.3682963	0	49
	30	9.5952848	491	9.9634065	90	9.6318782	582	0.3681218	30	
12	0	9.5954322	491	9.9633795	91	9.6320527	582	0.3679473	0	48
	30	9.5955795	491	9.9633524	90	9.6322271	582	0.3677729	30	
13	0	9.5957268	491	9.9633253	90	9.6324015	581	0.3675985	0	47
	30	9.5958740	491	9.9632982	90	9.6325755	581	0.3674241	30	
14	0	9.5960212	491	9.9632711	91	9.6327501	581	0.3672499	0	46
	30	9.5961683	491	9.9632440	91	9.6329244	580	0.3670756	30	
15	0	9.5963154	490	9.9632168	90	9.6330985	581	0.3669015	0	45
	30	9.5964624	490	9.9631897	91	9.6332727	580	0.3667273	30	
16	0	9.5966093	490	9.9631625	90	9.6334468	580	0.3665532	0	44
	30	9.5967562	489	9.9631354	91	9.6336208	580	0.3663792	30	
17	0	9.5969030	489	9.9631082	91	9.6337948	580	0.3662052	0	43
	30	9.5970498	489	9.9630810	91	9.6339687	580	0.3660313	30	
18	0	9.5971965	488	9.9630538	91	9.6341426	580	0.3658574	0	42
	30	9.5973431	489	9.9630266	91	9.6343165	579	0.3656835	30	
19	0	9.5974897	488	9.9629994	91	9.6344903	579	0.3655097	0	41
	30	9.5976362	488	9.9629721	90	9.6346640	580	0.3653360	30	
20	0	9.5977827	488	9.9629449	91	9.6348378	578	0.3651622	0	40
	30	9.5979291	488	9.9629177	91	9.6350114	579	0.3649886	30	
21	0	9.5980754	488	9.9628904	91	9.6351850	579	0.3648150	0	39
	30	9.5982217	487	9.9628631	91	9.6353586	578	0.3646414	30	
22	0	9.5983679	488	9.9628358	91	9.6355321	578	0.3644679	0	38
	30	9.5985141	487	9.9628085	91	9.6357056	578	0.3642944	30	
23	0	9.5986602	487	9.9627812	91	9.6358790	578	0.3641210	0	37
	30	9.5988063	486	9.9627539	91	9.6360524	577	0.3639476	30	
24	0	9.5989523	486	9.9627266	91	9.6362257	577	0.3637743	0	36
	30	9.5990982	486	9.9626992	91	9.6363990	577	0.3636010	30	
25	0	9.5992441	486	9.9626719	91	9.6365722	577	0.3634278	0	35
	30	9.5993899	486	9.9626445	91	9.6367454	577	0.3632546	30	
26	0	9.5995357	485	9.9626172	92	9.6369185	577	0.3630815	0	34
	30	9.5996814	485	9.9625898	92	9.6370916	577	0.3629084	30	
27	0	9.5998270	486	9.9625624	92	9.6372646	577	0.3627354	0	33
	30	9.5999726	485	9.9625350	92	9.6374376	577	0.3625624	30	
28	0	9.6001181	485	9.9625076	92	9.6376106	576	0.3623894	0	32
	30	9.6002636	485	9.9624801	91	9.6377835	576	0.3622165	30	
29	0	9.6004090	485	9.9624527	92	9.6379563	576	0.3620437	0	31
	30	9.6005544	484	9.9624252	91	9.6381291	576	0.3618709	30	
30	0	9.6006997		9.9623978		9.6383019		0.3616981	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6006997	484	9.9623978	92	9.6383019	576	0.3616981	0	30
	30	9.6008449	484	9.9623703	91	9.6384746	576	0.3615254	30	
31	0	9.6009901	484	9.9623428	91	9.6386473	575	0.3613527	0	29
	30	9.6011352	484	9.9623153	91	9.6388199	575	0.3611801	30	
32	0	9.6012803	483	9.9622878	91	9.6389925	575	0.3610075	0	28
	30	9.6014253	483	9.9622603	92	9.6391650	575	0.3608350	30	
33	0	9.6015703	483	9.9622328	92	9.6393375	575	0.3606625	0	27
	30	9.6017152	483	9.9622053	92	9.6395099	575	0.3604901	30	
34	0	9.6018600	483	9.9621777	92	9.6396823	574	0.3603177	0	26
	30	9.6020048	482	9.9621502	92	9.6398546	575	0.3601454	30	
35	0	9.6021495	482	9.9621226	92	9.6400269	574	0.3599731	0	25
	30	9.6022942	482	9.9620950	92	9.6401992	574	0.3598008	30	
36	0	9.6024388	482	9.9620674	92	9.6403714	574	0.3596286	0	24
	30	9.6025833	482	9.9620398	92	9.6405435	574	0.3594565	30	
37	0	9.6027278	482	9.9620122	92	9.6407156	574	0.3592844	0	23
	30	9.6028723	481	9.9619846	92	9.6408877	573	0.3591123	30	
38	0	9.6030166	482	9.9619569	92	9.6410597	573	0.3589403	0	22
	30	9.6031610	481	9.9619293	92	9.6412317	573	0.3587683	30	
39	0	9.6033052	481	9.9619016	92	9.6414036	573	0.3585964	0	21
	30	9.6034494	481	9.9618740	93	9.6415755	573	0.3584245	30	
40	0	9.6035936	480	9.9618463	92	9.6417473	573	0.3582527	0	20
	30	9.6037377	480	9.9618186	92	9.6419191	572	0.3580809	30	
41	0	9.6038817	480	9.9617909	92	9.6420908	573	0.3579092	0	19
	30	9.6040257	480	9.9617632	92	9.6422625	572	0.3577375	30	
42	0	9.6041696	480	9.9617355	93	9.6424342	572	0.3575658	0	18
	30	9.6043135	479	9.9617077	92	9.6426058	571	0.3573942	30	
43	0	9.6044573	479	9.9616800	93	9.6427773	572	0.3572227	0	17
	30	9.6046011	479	9.9616522	92	9.6429488	572	0.3570512	30	
44	0	9.6047448	478	9.9616245	93	9.6431203	571	0.3568797	0	16
	30	9.6048884	479	9.9615967	93	9.6432917	571	0.3567083	30	
45	0	9.6050320	478	9.9615689	93	9.6434631	571	0.3565369	0	15
	30	9.6051755	478	9.9615411	93	9.6436344	571	0.3563656	30	
46	0	9.6053190	478	9.9615133	93	9.6438057	571	0.3561943	0	14
	30	9.6054624	478	9.9614855	93	9.6439769	571	0.3560231	30	
47	0	9.6056057	478	9.9614576	92	9.6441481	571	0.3558519	0	13
	30	9.6057490	478	9.9614298	93	9.6443192	571	0.3556808	35	
48	0	9.6058923	477	9.9614020	93	9.6444903	571	0.3555097	0	12
	30	9.6060355	477	9.9613741	93	9.6446614	570	0.3553386	30	
49	0	9.6061786	477	9.9613462	93	9.6448324	570	0.3551676	0	11
	30	9.6063217	477	9.9613183	93	9.6450034	569	0.3549966	30	
50	0	9.6064647	477	9.9612904	93	9.6451743	569	0.3548257	0	10
	30	9.6066077	476	9.9612625	93	9.6453451	570	0.3546549	30	
51	0	9.6067506	476	9.9612346	93	9.6455160	569	0.3544840	0	9
	30	9.6068934	476	9.9612067	93	9.6456868	569	0.3543132	30	
52	0	9.6070362	476	9.9611787	93	9.6458575	569	0.3541425	0	8
	30	9.6071789	476	9.9611508	93	9.6460282	569	0.3539718	30	
53	0	9.6073216	476	9.9611228	93	9.6461988	569	0.3538012	0	7
	30	9.6074643	475	9.9610948	93	9.6463694	569	0.3536306	30	
54	0	9.6076068	476	9.9610668	93	9.6465400	568	0.3534600	0	6
	30	9.6077493	475	9.9610389	94	9.6467106	568	0.3532895	30	
55	0	9.6078918	475	9.9610108	93	9.6468810	568	0.3531190	0	5
	30	9.6080342	475	9.9609828	93	9.6470514	568	0.3529486	30	
56	0	9.6081765	475	9.9609548	94	9.6472217	568	0.3527783	0	4
	30	9.6083188	474	9.9609268	94	9.6473921	567	0.3526079	30	
57	0	9.6084611	474	9.9608987	93	9.6475624	567	0.3524376	0	3
	30	9.6086032	474	9.9608706	93	9.6477326	567	0.3522674	30	
58	0	9.6087454	473	9.9608426	94	9.6479028	567	0.3520972	0	2
	30	9.6088874	474	9.9608145	94	9.6480730	567	0.3519270	30	
59	0	9.6090294	474	9.9607864	94	9.6482431	566	0.3517569	0	1
	30	9.6091714	473	9.9607583	94	9.6484131	567	0.3515869	30	
60	0	9.6093133		9.9607302		9.6485831		0.3514169	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.6093133	473	9.9607302	94	9.6485831	567	0.3514169	0	60
	30	9.6094561	473	9.9607020	93	9.6487531	567	0.3512469	30	
1	0	9.6095989	473	9.9606739	94	9.6489230	567	0.3510770	0	59
	30	9.6097387	472	9.9606457	93	9.6490929	566	0.3509071	30	
2	0	9.6098803	473	9.9606176	94	9.6492628	566	0.3507372	0	58
	30	9.6100220	472	9.9605894	94	9.6494326	565	0.3505674	30	
3	0	9.6101635	472	9.9605612	94	9.6496023	566	0.3503977	0	57
	30	9.6103050	472	9.9605330	94	9.6497720	566	0.3502280	30	
4	0	9.6104465	471	9.9605048	94	9.6499417	565	0.3500583	0	56
	30	9.6105879	471	9.9604766	94	9.6501113	565	0.3498887	30	
5	0	9.6107293	471	9.9604484	94	9.6502809	565	0.3497191	0	55
	30	9.6108705	471	9.9604201	94	9.6504504	565	0.3495496	30	
6	0	9.6110118	470	9.9603919	94	9.6506199	565	0.3493801	0	54
	30	9.6111530	470	9.9603636	94	9.6507893	565	0.3492107	30	
7	0	9.6112941	470	9.9603354	95	9.6509587	565	0.3490413	0	53
	30	9.6114352	470	9.9603071	95	9.6511281	564	0.3488719	30	
8	0	9.6115762	470	9.9602788	95	9.6512974	564	0.3487026	0	52
	30	9.6117171	470	9.9602505	95	9.6514667	564	0.3485333	30	
9	0	9.6118580	470	9.9602222	95	9.6516359	564	0.3483641	0	51
	30	9.6119989	469	9.9601938	94	9.6518051	563	0.3481949	30	
10	0	9.6121397	469	9.9601655	95	9.6519742	564	0.3480258	0	50
	30	9.6122804	469	9.9601371	94	9.6521433	563	0.3478567	30	
11	0	9.6124211	469	9.9601088	95	9.6523123	564	0.3476877	0	49
	30	9.6125617	469	9.9600804	94	9.6524813	564	0.3475187	30	
12	0	9.6127023	469	9.9600520	94	9.6526503	563	0.3473497	0	48
	30	9.6128428	469	9.9600236	94	9.6528192	563	0.3471808	30	
13	0	9.6129833	468	9.9599952	94	9.6529881	563	0.3470119	0	47
	30	9.6131237	468	9.9599668	95	9.6531569	563	0.3468431	30	
14	0	9.6132641	468	9.9599384	95	9.6533257	562	0.3466743	0	46
	30	9.6134044	467	9.9599100	95	9.6534944	563	0.3465056	30	
15	0	9.6135446	468	9.9598815	95	9.6536631	563	0.3463369	0	45
	30	9.6136848	468	9.9598530	94	9.6538318	562	0.3461682	30	
16	0	9.6138250	467	9.9598246	95	9.6540004	562	0.3459996	0	44
	30	9.6139651	466	9.9597961	95	9.6541690	561	0.3458310	30	
17	0	9.6141051	467	9.9597676	95	9.6543375	562	0.3456625	0	43
	30	9.6142451	466	9.9597391	95	9.6545060	561	0.3454940	30	
18	0	9.6143850	466	9.9597106	95	9.6546744	561	0.3453256	0	42
	30	9.6145249	466	9.9596821	96	9.6548428	561	0.3451572	30	
19	0	9.6146647	466	9.9596535	95	9.6550112	561	0.3449888	0	41
	30	9.6148044	466	9.9596250	95	9.6551795	561	0.3448205	30	
20	0	9.6149441	466	9.9595964	95	9.6553477	561	0.3446523	0	40
	30	9.6150838	465	9.9595678	95	9.6555160	560	0.3444840	30	
21	0	9.6152234	465	9.9595393	96	9.6556841	561	0.3443159	0	39
	30	9.6153629	465	9.9595107	96	9.6558523	560	0.3441477	30	
22	0	9.6155024	465	9.9594821	96	9.6560204	560	0.3439796	0	38
	30	9.6156419	464	9.9594535	96	9.6561884	560	0.3438116	30	
23	0	9.6157812	465	9.9594248	95	9.6563564	560	0.3436436	0	37
	30	9.6159206	464	9.9593962	96	9.6565244	560	0.3434756	30	
24	0	9.6160599	464	9.9593675	95	9.6566923	560	0.3433077	0	36
	30	9.6161991	464	9.9593389	96	9.6568602	559	0.3431398	30	
25	0	9.6163382	464	9.9593102	95	9.6570280	560	0.3429720	0	35
	30	9.6164774	463	9.9592815	95	9.6571958	559	0.3428042	30	
26	0	9.6166164	464	9.9592528	95	9.6573636	559	0.3426364	0	34
	30	9.6167554	463	9.9592241	95	9.6575313	559	0.3424687	30	
27	0	9.6168944	463	9.9591954	95	9.6576989	559	0.3423011	0	33
	30	9.6170333	463	9.9591667	96	9.6578666	558	0.3421334	30	
28	0	9.6171721	463	9.9591380	96	9.6580341	559	0.3419659	0	32
	30	9.6173109	463	9.9591092	96	9.6582017	558	0.3417983	30	
29	0	9.6174496	463	9.9590805	96	9.6583692	558	0.3416308	0	31
	30	9.6175883	462	9.9590517	96	9.6585366	558	0.3414634	30	
30	0	9.6177270	10″	9.9590229	10″	9.6587041	10″	0.3412959	0	30
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6177270	462	9.9590229	96	9.6587041	557	0.3412959	0	30
	30	9.6178655	462	9.9589941	96	9.6588714	558	0.3411286	30	
31	0	9.6180041	461	9.9589653	96	9.6590387	558	0.3409613	0	29
	30	9.6181425	462	9.9589365	96	9.6592060	558	0.3407940	30	
32	0	9.6182809	462	9.9589077	96	9.6593733	557	0.3406267	0	28
	30	9.6184193	461	9.9588788	96	9.6595405	557	0.3404595	30	
33	0	9.6185576	461	9.9588500	96	9.6597076	557	0.3402924	0	27
	30	9.6186959	461	9.9588211	96	9.6598747	557	0.3401253	30	
34	0	9.6188341	460	9.9587923	97	9.6600418	557	0.3399582	0	26
	30	9.6189722	461	9.9587634	96	9.6602089	556	0.3397911	30	
35	0	9.6191103	461	9.9587345	96	9.6603758	557	0.3396242	0	25
	30	9.6192484	460	9.9587056	96	9.6605428	556	0.3394572	30	
36	0	9.6193864	460	9.9586767	97	9.6607097	556	0.3392903	0	24
	30	9.6195243	460	9.9586477	96	9.6608766	556	0.3391234	30	
37	0	9.6196622	459	9.9586188	96	9.6610434	556	0.3389566	0	23
	30	9.6198000	460	9.9585899	97	9.6612102	555	0.3387898	30	
38	0	9.6199378	459	9.9585609	96	9.6613769	556	0.3386231	0	22
	30	9.6200755	459	9.9585319	96	9.6615436	556	0.3384564	30	
39	0	9.6202132	459	9.9585030	97	9.6617103	555	0.3382897	0	21
	30	9.6203508	459	9.9584740	97	9.6618769	555	0.3381231	30	
40	0	9.6204884	458	9.9584450	97	9.6620434	555	0.3379566	0	20
	30	9.6206259	458	9.9584159	96	9.6622100	555	0.3377900	30	
41	0	9.6207634	458	9.9583869	97	9.6623765	554	0.3376235	0	19
	30	9.6209008	458	9.9583579	97	9.6625429	555	0.3374571	03	
42	0	9.6210382	457	9.9583288	97	9.6627093	555	0.3372907	0	18
	30	9.6211755	457	9.9582998	97	9.6628757	554	0.3371243	30	
43	0	9.6213127	457	9.9582707	97	9.6630420	554	0.3369580	0	17
	30	9.6214499	457	9.9582416	97	9.6632083	554	0.3367917	30	
44	0	9.6215871	457	9.9582125	97	9.6633745	554	0.3366255	0	16
	30	9.6217242	456	9.9581834	97	9.6635407	554	0.3364593	30	
45	0	9.6218612	457	9.9581543	97	9.6637069	554	0.3362931	0	15
	30	9.6219982	456	9.9581252	97	9.6638730	554	0.3361270	30	
46	0	9.6221351	457	9.9580961	98	9.6640391	553	0.3359609	0	14
	30	9.6222720	456	9.9580669	97	9.6642051	553	0.3357949	30	
47	0	9.6224088	456	9.9580378	98	9.6643711	553	0.3356289	0	13
	30	9.6225456	456	9.9580086	97	9.6645370	553	0.3354630	30	
48	0	9.6226824	455	9.9579794	97	9.6647030	552	0.3352970	0	12
	30	9.6228190	456	9.9579502	97	9.6648688	553	0.3351312	30	
49	0	9.6229557	455	9.9579210	97	9.6650346	553	0.3349654	0	11
	30	9.6230922	455	9.9578918	97	9.6652004	553	0.3347996	30	
50	0	9.6232287	455	9.9578626	98	9.6653662	552	0.3346338	0	10
	30	9.6233652	455	9.9578333	97	9.6655319	552	0.3344681	30	
51	0	9.6235016	455	9.9578041	98	9.6656975	553	0.3343025	0	9
	30	9.6236380	454	9.9577748	97	9.6658632	552	0.3341368	30	
52	0	9.6237743	454	9.9577456	98	9.6660288	551	0.3339712	0	8
	30	9.6239106	454	9.9577163	98	9.6661943	552	0.3338057	30	
53	0	9.6240468	454	9.9576870	98	9.6663598	552	0.3336402	0	7
	30	9.6241829	454	9.9576577	98	9.6665253	551	0.3334747	30	
54	0	9.6243190	454	9.9576284	98	9.6666907	551	0.3333093	0	6
	30	9.6244551	453	9.9575990	97	9.6668561	551	0.3331439	30	
55	0	9.6245911	453	9.9575697	98	9.6670214	551	0.3329786	0	5
	30	9.6247270	453	9.9575404	98	9.6671867	551	0.3328133	30	
56	0	9.6248629	453	9.9575110	98	9.6673519	551	0.3326481	0	4
	30	9.6249988	453	9.9574816	98	9.6675172	550	0.3324828	30	
57	0	9.6251346	452	9.9574522	98	9.6676823	551	0.3323177	0	3
	30	9.6252703	453	9.9574228	98	9.6678475	550	0.3321525	30	
58	0	9.6254060	452	9.9573934	98	9.6680126	550	0.3319874	0	2
	30	9.6255417	452	9.9573640	98	9.6681776	550	0.3318224	30	
59	0	9.6256772	452	9.9573346	98	9.6683426	550	0.3316574	0	1
	30	9.6258128	451	9.9573052	99	9.6685076	550	0.3314924	30	
60	0	9.6259483		9.9572757		9.6686725		0.3313275	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.6259483	451	9.9572757	98	9.6686725	550	0.3313275	0	60
	30	9.6260837	451	9.9572463	99	9.6688374	550	0.3311626	30	
1	0	9.6262191	451	9.9572168	98	9.6690023	549	0.3309977	0	59
	30	9.6263544	451	9.9571873	98	9.6691671	549	0.3308329	30	
2	0	9.6264897	451	9.9571578	98	9.6693319	549	0.3306681	0	58
	30	9.6266249	451	9.9571283	98	9.6694966	549	0.3305034	30	
3	0	9.6267601	450	9.9570988	99	9.6696613	549	0.3303387	0	57
	30	9.6268952	450	9.9570693	99	9.6698260	548	0.3301740	30	
4	0	9.6270303	450	9.9570397	98	9.6699906	548	0.3300094	0	56
	30	9.6271653	450	9.9570102	99	9.6701551	549	0.3298449	30	
5	0	9.6273003	450	9.9569806	99	9.6703197	548	0.3296803	0	55
	30	9.6274352	450	9.9569510	98	9.6704842	548	0.3295158	30	
6	0	9.6275701	449	9.9569215	99	9.6706486	548	0.3293514	0	54
	30	9.6277049	449	9.9568919	99	9.6708130	548	0.3291870	30	
7	0	9.6278397	449	9.9568623	99	9.6709774	548	0.3290226	0	53
	30	9.6279744	449	9.9568326	98	9.6711417	548	0.3288583	30	
8	0	9.6281090	449	9.9568030	99	9.6713060	548	0.3286940	0	52
	30	9.6282437	448	9.9567734	99	9.6714703	547	0.3285297	30	
9	0	9.6283782	449	9.9567437	99	9.6716345	547	0.3283655	0	51
	30	9.6285127	449	9.9567141	99	9.6717987	547	0.3282013	30	
10	0	9.6286472	448	9.9566844	99	9.6719628	547	0.3280372	0	50
	30	9.6287816	448	9.9566547	99	9.6721269	547	0.3278731	30	
11	0	9.6289160	447	9.9566250	99	9.6722910	546	0.3277090	0	49
	30	9.6290503	447	9.9565953	99	9.6724550	546	0.3275450	30	
12	0	9.6291845	448	9.9565656	99	9.6726190	546	0.3273810	0	48
	30	9.6293187	448	9.9565358	99	9.6727829	546	0.3272171	30	
13	0	9.6294529	447	9.9565061	99	9.6729468	546	0.3270532	0	47
	30	9.6295870	447	9.9564764	100	9.6731107	546	0.3268893	30	
14	0	9.6297211	446	9.9564466	99	9.6732745	546	0.3267255	0	46
	30	9.6298551	446	9.9564168	99	9.6734383	545	0.3265617	30	
15	0	9.6299890	447	9.9563870	99	9.6736020	546	0.3263980	0	45
	30	9.6301229	447	9.9563572	99	9.6737657	546	0.3262343	30	
16	0	9.6302568	446	9.9563274	99	9.6739294	545	0.3260706	0	44
	30	9.6303906	446	9.9562976	99	9.6740930	545	0.3259070	30	
17	0	9.6305243	446	9.9562678	100	9.6742566	545	0.3257434	0	43
	30	9.6306580	446	9.9562379	99	9.6744201	545	0.3255799	30	
18	0	9.6307917	445	9.9562081	100	9.6745836	545	0.3254164	0	42
	30	9.6309253	445	9.9561782	99	9.6747471	545	0.3252529	30	
19	0	9.6310589	445	9.9561483	99	9.6749105	545	0.3250895	0	41
	30	9.6311924	444	9.9561185	100	9.6750739	544	0.3249261	30	
20	0	9.6313258	445	9.9560886	100	9.6752372	545	0.3247628	0	40
	30	9.6314592	445	9.9560587	100	9.6754006	544	0.3245994	30	
21	0	9.6315926	444	9.9560287	99	9.6755638	544	0.3244362	0	39
	30	9.6317259	444	9.9559988	100	9.6757271	544	0.3242729	30	
22	0	9.6318591	444	9.9559689	100	9.6758903	543	0.3241097	0	38
	30	9.6319923	444	9.9559389	100	9.6760534	544	0.3239466	30	
23	0	9.6321255	443	9.9559089	99	9.6762165	544	0.3237835	0	37
	30	9.6322586	443	9.9558790	100	9.6763796	544	0.3236204	30	
24	0	9.6323916	444	9.9558490	100	9.6765426	544	0.3234574	0	36
	30	9.6325246	443	9.9558190	100	9.6767056	544	0.3232944	30	
25	0	9.6326576	443	9.9557890	100	9.6768686	543	0.3231314	0	35
	30	9.6327905	443	9.9557589	100	9.6770315	543	0.3229685	30	
26	0	9.6329233	443	9.9557289	100	9.6771944	543	0.3228056	0	34
	30	9.6330561	443	9.9556989	100	9.6773573	542	0.3226427	30	
27	0	9.6331889	442	9.9556688	100	9.6775201	542	0.3224799	0	33
	30	9.6333216	442	9.9556387	100	9.6776828	543	0.3223172	30	
28	0	9.6334542	442	9.9556087	101	9.6778456	542	0.3221544	0	32
	30	9.6335868	442	9.9555786	100	9.6780083	542	0.3219917	30	
29	0	9.6337194	442	9.9555485	101	9.6781709	542	0.3218291	0	31
	30	9.6338519	442	9.9555184	101	9.6783335	542	0.3216665	30	
30	0	9.6339844		9.9554882		9.6784961		0.3215039	0	30
′	″	l. cosin.	dif. 10″	l. sin.	d. 10″	l. cotan.	dif. 10″	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6339844	441	9.9554882	100	9.6784961	542	0.3215039	0	30
	30	9.6341168	441	9.9554581	100	9.6786586	542	0.3213414	30	
31	0	9.6342491	441	9.9554280	101	9.6788211	542	0.3211789	0	29
	30	9.6343814	441	9.9553978	100	9.6789835	541	0.3210164	30	
32	0	9.6345137	440	9.9553676	100	9.6791460	542	0.3208540	0	28
	30	9.6346459	440	9.9553375	101	9.6793084	541	0.3206916	30	
33	0	9.6347780	441	9.9553073	101	9.6794708	541	0.3205292	0	27
	30	9.6349101	441	9.9552771	101	9.6796331	541	0.3203669	30	
34	0	9.6350422	440	9.9552469	101	9.6797953	541	0.3202047	0	26
	30	9.6351742	440	9.9552166	100	9.6799576	540	0.3200424	30	
35	0	9.6353062	439	9.9551864	101	9.6801198	540	0.3198802	0	25
	30	9.6354381	439	9.9551562	101	9.6802819	541	0.3197181	30	
36	0	9.6355699	440	9.9551259	101	9.6804440	541	0.3195560	0	24
	30	9.6357018	439	9.9550956	101	9.6806061	540	0.3193939	30	
37	0	9.6358335	439	9.9550653	101	9.6807682	540	0.3192318	0	23
	30	9.6359652	439	9.9550351	101	9.6809302	540	0.3190698	30	
38	0	9.6360969	439	9.9550047	101	9.6810921	540	0.3189079	0	22
	30	9.6362285	439	9.9549744	101	9.6812541	539	0.3187459	30	
39	0	9.6363601	438	9.9549441	101	9.6814160	539	0.3185840	0	21
	30	9.6364916	438	9.9549138	101	9.6815778	540	0.3184222	30	
40	0	9.6366231	438	9.9548834	101	9.6817396	540	0.3182604	0	20
	30	9.6367545	438	9.9548531	102	9.6819014	539	0.3180986	30	
41	0	9.6368859	437	9.9548227	101	9.6820632	539	0.3179368	0	19
	30	9.6370172	437	9.9547923	101	9.6822249	539	0.3177751	30	
42	0	9.6371484	438	9.9547619	101	9.6823865	539	0.3176135	0	18
	30	9.6372797	437	9.9547315	101	9.6825482	538	0.3174518	30	
43	0	9.6374108	438	9.9547011	101	9.6827098	538	0.3172902	0	17
	30	9.6375420	437	9.9546707	102	9.6828713	539	0.3171287	30	
44	0	9.6376731	436	9.9546402	101	9.6830328	539	0.3169672	0	16
	30	9.6378041	436	9.9546098	102	9.6831943	538	0.3168057	30	
45	0	9.6379351	436	9.9545793	101	9.6833557	539	0.3166443	0	15
	30	9.6380660	436	9.9545488	101	9.6835172	537	0.3164828	30	
46	0	9.6381969	436	9.9545184	102	9.6836785	538	0.3163215	0	14
	30	9.6383277	436	9.9544879	102	9.6838398	538	0.3161602	30	
47	0	9.6384585	436	9.9544574	102	9.6840011	538	0.3159989	0	13
	30	9.6385892	436	9.9544268	101	9.6841624	537	0.3158376	30	
48	0	9.6387199	436	9.9543963	102	9.6843236	537	0.3156764	0	12
	30	9.6388506	435	9.9543658	102	9.6844848	537	0.3155152	30	
49	0	9.6389812	435	9.9543352	102	9.6846459	537	0.3153541	0	11
	30	9.6391117	435	9.9543046	101	9.6848070	537	0.3151930	30	
50	0	9.6392422	435	9.9542741	102	9.6849681	537	0.3150319	0	10
	30	9.6393726	435	9.9542435	102	9.6851291	537	0.3148709	30	
51	0	9.6395030	435	9.9542129	102	9.6852901	537	0.3147099	0	9
	30	9.6396334	434	9.9541823	102	9.6854511	536	0.3145489	30	
52	0	9.6397637	434	9.9541517	103	9.6856120	537	0.3143880	0	8
	30	9.6398939	434	9.9541210	102	9.6857729	536	0.3142271	30	
53	0	9.6400241	434	9.9540904	102	9.6859338	536	0.3140662	0	7
	30	9.6401543	434	9.9540597	102	9.6860946	536	0.3139054	30	
54	0	9.6402844	434	9.9540291	103	9.6862553	536	0.3137447	0	6
	30	9.6404145	433	9.9539984	102	9.6864161	536	0.3135839	30	
55	0	9.6405445	433	9.9539677	102	9.6865768	536	0.3134232	0	5
	30	9.6406744	434	9.9539370	103	9.6867374	536	0.3132626	30	
56	0	9.6408044	433	9.9539063	103	9.6868981	535	0.3131019	0	4
	30	9.6409342	433	9.9538756	103	9.6870587	535	0.3129413	30	
57	0	9.6410640	433	9.9538448	102	9.6872192	535	0.3127808	0	3
	30	9.6411938	433	9.9538141	103	9.6873797	535	0.3126203	30	
58	0	9.6413235	433	9.9537833	102	9.6875402	535	0.3124598	0	2
	30	9.6414532	432	9.9537526	103	9.6877007	534	0.3122993	30	
59	0	9.6415828	432	9.9537218	103	9.6878611	534	0.3121389	0	1
	30	9.6417124	432	9.9536910	103	9.6880214	535	0.3119786	30	
60	0	9.6418420		9.9536602		9.6881818		0.3118182	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

"	′	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	′	"
0	0	9.6418400	431	9.9536602	103	9.6881818	534	0.3118182	0	60
	30	9.6419714	432	9.9536294	103	9.6883421	534	0.3116579	30	
1	0	9.6421029	431	9.9535985	102	9.6885023	534	0.3114977	0	59
	30	9.6422343	431	9.9535677	103	9.6886626	534	0.3113374	30	
2	0	9.6423656	431	9.9535369	103	9.6888227	534	0.3111773	0	58
	30	9.6424889	431	9.9535060	103	9.6889829	534	0.3110171	30	
3	0	9.6426182	430	9.9534751	103	9.6891430	534	0.3108570	0	57
	30	9.6427474	430	9.9534443	103	9.6893031	534	0.3106969	30	
4	0	9.6428765	430	9.9534134	103	9.6894631	534	0.3105369	0	56
	30	9.6430056	430	9.9533825	103	9.6896232	533	0.3103768	30	
5	0	9.6431347	430	9.9533515	103	9.6897831	533	0.3102169	0	55
	30	9.6432637	430	9.9533206	103	9.6899431	533	0.3100569	30	
6	0	9.6433926	430	9.9532897	103	9.6901030	533	0.3098970	0	54
	30	9.6435215	430	9.9532587	103	9.6902628	533	0.3097372	30	
7	0	9.6436504	430	9.9532278	104	9.6904226	533	0.3095774	0	53
	30	9.6437792	430	9.9531968	103	9.6905824	533	0.3094176	30	
8	0	9.6439080	429	9.9531658	103	9.6907422	532	0.3092578	0	52
	30	9.6440367	429	9.9531348	103	9.6909019	532	0.3090981	30	
9	0	9.6441654	429	9.9531038	103	9.6910616	532	0.3089384	0	51
	30	9.6442940	429	9.9530728	104	9.6912212	533	0.3087788	30	
10	0	9.6444226	429	9.9530418	104	9.6913809	532	0.3086191	0	50
	30	9.6445511	429	9.9530107	103	9.6915404	532	0.3084596	30	
11	0	9.6446795	429	9.9529797	104	9.6917000	531	0.3083000	0	49
	30	9.6448081	428	9.9529486	104	9.6918595	531	0.3081405	30	
12	0	9.6449365	428	9.9529175	103	9.6920189	532	0.3079811	0	48
	30	9.6450648	428	9.9528864	103	9.6921784	531	0.3078216	30	
13	0	9.6451931	428	9.9528553	103	9.6923378	531	0.3076622	0	47
	30	9.6453214	427	9.9528242	103	9.6924971	532	0.3075029	30	
14	0	9.6454496	427	9.9527931	104	9.6926565	531	0.3073435	0	46
	30	9.6455777	427	9.9527620	104	9.6928158	530	0.3071842	30	
15	0	9.6457058	427	9.9527308	104	9.6929750	531	0.3070250	0	45
	30	9.6458339	427	9.9526997	104	9.6931342	531	0.3068658	30	
16	0	9.6459619	427	9.9526685	104	9.6932934	531	0.3067066	0	44
	30	9.6460899	426	9.9526373	104	9.6934526	530	0.3065474	30	
17	0	9.6462178	426	9.9526061	104	9.6936117	530	0.3063883	0	43
	30	9.6463457	426	9.9525749	104	9.6937708	530	0.3062292	30	
18	0	9.6464736	426	9.9525437	104	9.6939298	530	0.3060702	0	42
	30	9.6466013	426	9.9525125	104	9.6940888	530	0.3059112	30	
19	0	9.6467290	426	9.9524813	105	9.6942478	530	0.3057522	0	41
	30	9.6468567	426	9.9524500	104	9.6944067	530	0.3055933	30	
20	0	9.6469844	425	9.9524188	105	9.6945656	530	0.3054344	0	40
	30	9.6471120	425	9.9523875	104	9.6947245	529	0.3052755	30	
21	0	9.6472395	425	9.9523562	104	9.6948833	529	0.3051167	0	39
	30	9.6473670	425	9.9523249	104	9.6950421	529	0.3049579	30	
22	0	9.6474945	424	9.9522936	104	9.6952009	529	0.3047991	0	38
	30	9.6476219	424	9.9522623	104	9.6953596	529	0.3046404	30	
23	0	9.6477492	425	9.9522310	105	9.6955183	529	0.3044817	0	37
	30	9.6478766	424	9.9521996	104	9.6956769	529	0.3043231	30	
24	0	9.6480038	424	9.9521683	105	9.6958355	529	0.3041645	0	36
	30	9.6481310	424	9.9521369	104	9.6959941	529	0.3040059	30	
25	0	9.6482582	424	9.9521055	104	9.6961527	528	0.3038473	0	35
	30	9.6483854	423	9.9520742	105	9.6963112	528	0.3036888	30	
26	0	9.6485124	424	9.9520428	105	9.6964697	528	0.3035303	0	34
	30	9.6486395	423	9.9520114	105	9.6966281	528	0.3033719	30	
27	0	9.6487665	423	9.9519799	104	9.6967865	528	0.3032135	0	33
	30	9.6488934	423	9.9519485	105	9.6969449	528	0.3030551	30	
28	0	9.6490203	423	9.9519171	105	9.6971032	528	0.3028968	0	32
	30	9.6491472	422	9.9518856	105	9.6972615	528	0.3027385	30	
29	0	9.6492740	422	9.9518541	104	9.6974198	528	0.3025802	0	31
	30	9.6494007	423	9.9518227	105	9.6975781	527	0.3024219	30	
30	0	9.6495274		9.9517912		9.6977363		0.3022637	0	30
"	′	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	"	′

′	″	l. sin.	dif. 10″	l. cosin.	dif. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6495974	423	9.9517912	106	9.6977363	527	0.3022637	0	30
	30	9.6496541	422	9.9517597	105	9.6978944	527	0.3021056	30	
31	0	9.6497807	422	9.9517282	106	9.6980526	527	0.3019474	0	29
	30	9.6499073	422	9.9516967	106	9.6982106	527	0.3017894	30	
32	0	9.6500338	422	9.9516651	106	9.6983687	527	0.3016313	0	28
	30	9.6501603	422	9.9516336	105	9.6985267	527	0.3014733	30	
33	0	9.6502868	421	9.9516020	105	9.6986847	527	0.3013153	0	27
	30	9.6504131	422	9.9515704	105	9.6988427	526	0.3011573	30	
34	0	9.6505395	421	9.9515389	106	9.6990006	527	0.3009994	0	26
	30	9.6506658	421	9.9515073	106	9.6991585	526	0.3008415	30	
35	0	9.6507920	421	9.9514757	106	9.6993164	526	0.3006836	0	25
	30	9.6509182	421	9.9514441	106	9.6994742	526	0.3005258	30	
36	0	9.6510444	421	9.9514124	105	9.6996320	526	0.3003680	0	24
	30	9.6511705	421	9.9513808	105	9.6997897	526	0.3002103	30	
37	0	9.6512966	420	9.9513492	106	9.6999474	526	0.3000526	0	23
	30	9.6514226	420	9.9513175	106	9.7001051	526	0.2998949	30	
38	0	9.6515486	420	9.9512858	105	9.7002628	525	0.2997372	0	22
	30	9.6516745	420	9.9512541	105	9.7004204	525	0.2995796	30	
39	0	9.6518004	420	9.9512224	105	9.7005780	525	0.2994220	0	21
	30	9.6519263	419	9.9511907	105	9.7007355	525	0.2992645	30	
40	0	9.6520521	419	9.9511590	106	9.7008930	525	0.2991070	0	20
	30	9.6521778	419	9.9511273	106	9.7010505	525	0.2989495	30	
41	0	9.6523035	419	9.9510956	106	9.7012080	524	0.2987920	0	19
	30	9.6524292	418	9.9510638	106	9.7013654	524	0.2986346	30	
42	0	9.6525548	418	9.9510320	106	9.7015227	525	0.2984773	0	18
	30	9.6526804	418	9.9510003	106	9.7016801	524	0.2983199	30	
43	0	9.6528059	418	9.9509685	106	9.7018374	524	0.2981626	0	17
	30	9.6529313	419	9.9509367	106	9.7019947	524	0.2980053	30	
44	0	9.6530568	418	9.9509049	106	9.7021519	524	0.2978481	0	16
	30	9.6531822	418	9.9508731	107	9.7023091	524	0.2976909	30	
45	0	9.6533075	418	9.9508412	106	9.7024663	524	0.2975337	0	15
	30	9.6534328	418	9.9508094	106	9.7026234	524	0.2973766	30	
46	0	9.6535581	417	9.9507775	106	9.7027805	524	0.2972195	0	14
	30	9.6536833	417	9.9507457	107	9.7029376	524	0.2970624	30	
47	0	9.6538084	417	9.9507138	107	9.7030946	524	0.2969054	0	13
	30	9.6539335	417	9.9506819	106	9.7032516	524	0.2967484	30	12
48	0	9.6540586	417	9.9506500	107	9.7034086	523	0.2965914	0	
	30	9.6541836	417	9.9506181	107	9.7035656	523	0.2964344	30	
49	0	9.6543086	417	9.9505861	106	9.7037225	523	0.2962775	0	11
	30	9.6544335	417	9.9505542	106	9.7038793	523	0.2961207	30	
50	0	9.6545584	416	9.9505223	107	9.7040362	522	0.2959638	0	10
	30	9.6546833	416	9.9504903	107	9.7041930	522	0.2958070	30	
51	0	9.6548081	416	9.9504583	106	9.7043497	523	0.2956503	0	9
	30	9.6549328	416	9.9504263	106	9.7045065	522	0.2954935	30	
52	0	9.6550575	416	9.9503944	107	9.7046632	522	0.2953368	0	8
	30	9.6551822	415	9.9503624	107	9.7048198	523	0.2951802	30	
53	0	9.6553068	415	9.9503303	106	9.7049765	522	0.2950235	0	7
	30	9.6554314	415	9.9502983	107	9.7051331	522	0.2948669	30	
54	0	9.6555559	415	9.9502663	107	9.7052897	521	0.2947103	0	6
	30	9.6556804	415	9.9502342	107	9.7054462	522	0.2945538	30	
55	0	9.6558048	415	9.9502022	107	9.7056027	521	0.2943973	0	5
	30	9.6559292	415	9.9501701	107	9.7057592	521	0.2942408	30	
56	0	9.6560536	414	9.9501380	107	9.7059156	521	0.2940844	0	4
	30	9.6561779	414	9.9501059	107	9.7060720	521	0.2939280	30	
57	0	9.6563021	415	9.9500738	107	9.7062284	521	0.2937716	0	3
	30	9.6564264	414	9.9500417	107	9.7063847	521	0.2936153	30	
58	0	9.6565505	414	9.9500095	107	9.7065410	521	0.2934590	0	2
	30	9.6566747	413	9.9499774	107	9.7066973	521	0.2933027	30	
59	0	9.6567987	414	9.9499452	107	9.7068535	521	0.2931465	0	1
	30	9.6569228	413	9.9499131	108	9.7070097	521	0.2929903	30	
60	0	9.6570468		9.9498809		9.7071659		0.2928341	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ dif.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.6570468	413	9.9498809	107	9.7071659	520	0.2928341	0	60
	30	9.6571707	413	9.9498487	107	9.7073220	521	0.2926780	30	
1	0	9.6572946	413	9.9498165	107	9.7074781	521	0.2925219	0	59
	30	9.6574185	412	9.9497843	108	9.7076342	520	0.2923658	30	
2	0	9.6575423	412	9.9497521	108	9.7077902	520	0.2922098	0	58
	30	9.6576661	412	9.9497198	107	9.7079462	520	0.2920538	30	
3	0	9.6577898	412	9.9496876	108	9.7081022	520	0.2918978	0	57
	30	9.6579135	412	9.9496553	107	9.7082582	519	0.2917418	30	
4	0	9.6580371	412	9.9496230	107	9.7084141	519	0.2915859	0	56
	30	9.6581607	412	9.9495908	108	9.7085699	520	0.2914301	30	
5	0	9.6582842	412	9.9495585	108	9.7087258	519	0.2912742	0	55
	30	9.6584077	412	9.9495262	108	9.7088816	519	0.2911184	30	
6	0	9.6585312	411	9.9494938	107	9.7090374	519	0.2909626	0	54
	30	9.6586546	411	9.9494615	108	9.7091931	519	0.2908069	30	
7	0	9.6587780	411	9.9494292	108	9.7093488	519	0.2906512	0	53
	30	9.6589013	411	9.9493968	108	9.7095045	519	0.2904955	30	
8	0	9.6590246	411	9.9493645	108	9.7096601	519	0.2903399	0	52
	30	9.6591478	411	9.9493321	108	9.7098158	518	0.2901842	30	
9	0	9.6592710	411	9.9492997	108	9.7099713	519	0.2900287	0	51
	30	9.6593942	410	9.9492673	108	9.7101269	518	0.2898731	30	
10	0	9.6595173	410	9.9492349	108	9.7102824	518	0.2897176	0	50
	30	9.6596403	410	9.9492025	109	9.7104379	518	0.2895621	30	
11	0	9.6597633	410	9.9491700	108	9.7105933	518	0.2894067	0	49
	30	9.6598863	410	9.9491376	108	9.7107487	518	0.2892513	30	
12	0	9.6600093	409	9.9491051	108	9.7109041	518	0.2890959	0	48
	30	9.6601321	410	9.9490727	109	9.7110595	518	0.2889405	30	
13	0	9.6602550	409	9.9490402	109	9.7112148	518	0.2887852	0	47
	30	9.6603778	409	9.9490077	109	9.7113701	518	0.2886299	30	
14	0	9.6605005	409	9.9489752	109	9.7115254	517	0.2884746	0	46
	30	9.6606232	409	9.9489427	109	9.7116806	517	0.2883194	30	
15	0	9.6607459	409	9.9489101	108	9.7118358	517	0.2881642	0	45
	30	9.6608685	409	9.9488776	109	9.7119909	517	0.2880091	30	
16	0	9.6609911	409	9.9488450	108	9.7121461	517	0.2878539	0	44
	30	9.6611136	409	9.9488125	109	9.7123012	516	0.2876988	30	
17	0	9.6612361	408	9.9487799	108	9.7124562	517	0.2875438	0	43
	30	9.6613586	408	9.9487473	108	9.7126112	517	0.2873888	30	
18	0	9.6614810	408	9.9487147	108	9.7127662	517	0.2872338	0	42
	30	9.6616033	408	9.9486821	108	9.7129212	517	0.2870788	30	
19	0	9.6617257	407	9.9486495	109	9.7130761	517	0.2869239	0	41
	30	9.6618479	408	9.9486169	109	9.7132311	516	0.2867689	30	
20	0	9.6617702	407	9.9485842	109	9.7133859	516	0.2866141	0	40
	30	9.6620923	408	9.9485516	109	9.7135408	516	0.2864592	30	
21	0	9.6622145	407	9.9485189	109	9.7136956	516	0.2863044	0	39
	30	9.6623366	407	9.9484862	109	9.7138503	516	0.2861497	30	
22	0	9.6624586	407	9.9484535	109	9.7140051	516	0.2859949	0	38
	30	9.6625806	407	9.9484208	109	9.7141598	516	0.2858402	30	
23	0	9.6627026	407	9.9483881	109	9.7143145	515	0.2856855	0	37
	30	9.6628245	407	9.9483554	109	9.7144691	516	0.2855309	30	
24	0	9.6629464	407	9.9483227	109	9.7146237	516	0.2853763	0	36
	30	9.6630682	407	9.9482899	109	9.7147783	516	0.2852217	30	
25	0	9.6631900	406	9.9482572	110	9.7149329	515	0.2850671	0	35
	30	9.6633118	406	9.9482244	109	9.7150874	515	0.2849126	30	
26	0	9.6634335	406	9.9481916	109	9.7152419	515	0.2847581	0	34
	30	9.6635552	405	9.9481588	109	9.7153964	514	0.2846036	30	
27	0	9.6636768	405	9.9481260	109	9.7155508	514	0.2844492	0	33
	30	9.6637984	405	9.9480932	110	9.7157052	514	0.2842948	30	
28	0	9.6639199	405	9.9480604	110	9.7158595	515	0.2841405	0	32
	30	9.6640414	405	9.9480275	109	9.7160139	514	0.2839861	30	
29	0	9.6641628	405	9.9479947	110	9.7161682	514	0.2838318	0	31
	30	9.6642842	405	9.9479618	110	9.7163224	515	0.2836776	30	
30	0	9.6644056	10″	9.9479289	10″	9.7164767	10″	0.2835233	0	30
′	″	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	dif. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6644056	404	9.9479283	109	9.7164767	514	0.2835233	0	30
	30	9.6645269	404	9.9478960	109	9.7166309	514	0.2833691	30	
31	0	9.6646482	404	9.9478631	109	9.7167851	513	0.2832149	0	29
	30	9.6647694	404	9.9478302	109	9.7169392	514	0.2830608	30	
32	0	9.6648906	404	9.9477973	110	9.7170933	514	0.2829067	0	28
	30	9.6650118	403	9.9477644	110	9.7172474	513	0.2827526	30	
33	0	9.6651329	403	9.9477314	110	9.7174014	514	0.2825986	0	27
	30	9.6652539	404	9.9476985	110	9.7175555	513	0.2824445	30	
34	0	9.6653749	404	9.9476655	110	9.7177094	514	0.2822906	0	26
	30	9.6654959	403	9.9476325	110	9.7178634	513	0.2821366	30	
35	0	9.6656168	403	9.9475995	110	9.7180173	513	0.2819827	0	25
	30	9.6657377	403	9.9475665	110	9.7181712	513	0.2818288	30	
36	0	9.6658586	403	9.9475335	110	9.7183251	513	0.2816749	0	24
	30	9.6659794	402	9.9475005	110	9.7184789	513	0.2815211	30	
37	0	9.6661001	403	9.9474674	110	9.7186327	513	0.2813673	0	23
	30	9.6662209	402	9.9474344	110	9.7187865	512	0.2812135	30	
38	0	9.6663415	403	9.9474013	110	9.7189402	513	0.2810598	0	22
	30	9.6664622	402	9.9473682	110	9.7190939	513	0.2809061	30	
39	0	9.6665828	401	9.9473352	111	9.7192476	512	0.2807524	0	21
	30	9.6667033	402	9.9473021	111	9.7194013	512	0.2805987	30	
40	0	9.6668238	402	9.9472689	110	9.7195549	512	0.2804451	0	20
	30	9.6669443	401	9.9472358	110	9.7197084	512	0.2802916	30	
41	0	9.6670647	401	9.9472027	111	9.7198620	512	0.2801380	0	19
	30	9.6671851	401	9.9471695	110	9.7200155	512	0.2799845	30	
42	0	9.6673054	401	9.9471364	111	9.7201690	512	0.2798310	0	18
	30	9.6674257	401	9.9471032	110	9.7203225	511	0.2796775	30	
43	0	9.6675459	401	9.9470700	110	9.7204759	511	0.2795241	0	17
	30	9.6676662	400	9.9470369	111	9.7206293	511	0.2793707	30	
44	0	9.6677863	401	9.9470036	110	9.7207827	511	0.2792173	0	16
	30	9.6679064	401	9.9469704	110	9.7209360	511	0.2790640	30	
45	0	9.6680265	400	9.9469372	111	9.7210893	511	0.2789107	0	15
	30	9.6681466	400	9.9469040	111	9.7212426	511	0.2787574	30	
46	0	9.6682665	400	9.9468707	111	9.7213958	511	0.2786042	0	14
	30	9.6683865	400	9.9468375	111	9.7215490	511	0.2784510	30	
47	0	9.6685064	400	9.9468042	111	9.7217022	511	0.2782978	0	13
	30	9.6686263	399	9.9467709	111	9.7218554	510	0.2781446	30	
48	0	9.6687461	399	9.9467376	111	9.7220085	510	0.2779915	0	12
	30	9.6688659	399	9.9467043	111	9.7221616	510	0.2778384	30	
49	0	9.6689856	399	9.9466710	111	9.7223147	510	0.2776853	0	11
	30	9.6691053	399	9.9466376	111	9.7224677	510	0.2775323	30	
50	0	9.6692250	399	9.9466043	111	9.7226207	510	0.2773793	0	10
	30	9.6693446	399	9.9465709	111	9.7227737	509	0.2772263	30	
51	0	9.6694642	398	9.9465376	112	9.7229266	510	0.2770734	0	9
	30	9.6695837	398	9.9465042	111	9.7230795	510	0.2769205	30	
52	0	9.6697032	398	9.9464708	111	9.7232324	509	0.2767676	0	8
	30	9.6698226	398	9.9464374	111	9.7233852	510	0.2766148	30	7
53	0	9.6699420	398	9.9464040	112	9.7235381	509	0.2764619	0	
	30	9.6700614	398	9.9463705	111	9.7236909	509	0.2763091	30	
54	0	9.6701807	398	9.9463371	111	9.7238438	509	0.2761564	0	6
	30	9.6703000	397	9.9463037	112	9.7239963	509	0.2760037	30	5
55	0	9.6704192	398	9.9462702	112	9.7241490	509	0.2758510	0	
	30	9.6705384	397	9.9462367	111	9.7243017	509	0.2756983	30	
56	0	9.6706576	397	9.9462032	111	9.7244543	509	0.2755457	0	4
	30	9.6707767	397	9.9461697	111	9.7246069	509	0.2753931	30	
57	0	9.6708958	396	9.9461362	111	9.7247595	509	0.2752405	0	3
	30	9.6710148	396	9.9461027	112	9.7249121	508	0.2750879	30	
58	0	9.6711338	396	9.9460692	112	9.7250646	508	0.2749354	0	2
	30	9.6712527	397	9.9460356	112	9.7252171	508	0.2747829	30	
59	0	9.6713716	396	9.9460021	112	9.7253695	509	0.2746305	0	1
	30	9.6714905	396	9.9459685	112	9.7255220	508	0.2744780	30	
60	0	9.6716093		9.9459349		9.7256744		0.2743256	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ dif.	l. cotan.	10″ dif.	l. tang.	″	′

″	′	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	′	″
0	0	9.6716093	396	9.9459349	112	9.7256744	508	0.2743256	0	60
	30	9.6717281	396	9.9459013	112	9.7258267	508	0.2741733	30	
1	0	9.6718468	396	9.9458677	112	9.7259791	507	0.2740209	0	59
	30	9.6719655	396	9.9458341	112	9.7261314	507	0.2738686	30	
2	0	9.6720841	396	9.9458005	112	9.7262837	507	0.2737163	0	58
	30	9.6722028	395	9.9457669	113	9.7264359	507	0.2735641	30	
3	0	9.6723213	395	9.9457332	112	9.7265881	508	0.2734119	0	57
	30	9.6724399	395	9.9456995	112	9.7267403	507	0.2732597	30	
4	0	9.6725583	395	9.9456659	113	9.7268925	507	0.2731075	0	56
	30	9.6726768	395	9.9456322	113	9.7270446	507	0.2729554	30	
5	0	9.6727952	394	9.9455985	113	9.7271967	507	0.2728033	0	55
	30	9.6729136	394	9.9455648	113	9.7273488	507	0.2726512	30	
6	0	9.6730319	394	9.9455310	112	9.7275008	507	0.2724992	0	54
	30	9.6731501	395	9.9454973	112	9.7276528	507	0.2723472	30	
7	0	9.6732684	394	9.9454636	113	9.7278048	507	0.2721952	0	53
	30	9.6733866	394	9.9454298	112	9.7279568	506	0.2720432	30	
8	0	9.6735047	394	9.9453960	112	9.7281087	506	0.2718913	0	52
	30	9.6736228	394	9.9453623	113	9.7282606	506	0.2717394	30	
9	0	9.6737409	394	9.9453285	113	9.7284124	507	0.2715876	0	51
	30	9.6738589	394	9.9452947	113	9.7285643	506	0.2714357	30	
10	0	9.6739769	393	9.9452609	113	9.7287161	506	0.2712839	0	50
	30	9.6740949	393	9.9452270	113	9.7288679	505	0.2711321	30	
11	0	9.6742128	393	9.9451932	113	9.7290196	506	0.2709804	0	49
	30	9.6743306	393	9.9451593	113	9.7291713	506	0.2708287	30	
12	0	9.6744485	392	9.9451255	113	9.7293230	506	0.2706770	0	48
	30	9.6745663	392	9.9450916	113	9.7294747	505	0.2705253	30	
13	0	9.6746840	392	9.9450577	113	9.7296263	505	0.2703737	0	47
	30	9.6748017	392	9.9450238	113	9.7297779	505	0.2702221	30	
14	0	9.6749194	392	9.9449899	113	9.7299295	505	0.2700705	0	46
	30	9.6750370	392	9.9449560	113	9.7300810	505	0.2699190	30	
15	0	9.6751546	391	9.9449220	113	9.7302325	505	0.2697675	0	45
	30	9.6752721	392	9.9448881	113	9.7303840	505	0.2696160	30	
16	0	9.6753896	391	9.9448541	113	9.7305354	505	0.2694646	0	44
	30	9.6755070	392	9.9448202	114	9.7306869	504	0.2693131	30	
17	0	9.6756245	391	9.9447862	113	9.7308383	504	0.2691617	0	43
	30	9.6757418	391	9.9447522	113	9.7309896	505	0.2690104	30	
18	0	9.6758592	391	9.9447182	113	9.7311410	504	0.2688590	0	42
	30	9.6759764	391	9.9446842	114	9.7312923	504	0.2687077	30	
19	0	9.6760937	391	9.9446501	113	9.7314436	504	0.2685564	0	41
	30	9.6762109	391	9.9446161	113	9.7315948	504	0.2684052	30	
20	0	9.6763281	390	9.9445821	114	9.7317460	504	0.2682540	0	40
	30	9.6764452	390	9.9445480	114	9.7318972	504	0.2681028	30	
21	0	9.6765623	390	9.9445139	114	9.7320484	504	0.2679516	0	39
	30	9.6766793	390	9.9444798	113	9.7321995	504	0.2678005	30	
22	0	9.6767963	390	9.9444457	113	9.7323506	504	0.2676494	0	38
	30	9.6769133	390	9.9444116	114	9.7325017	503	0.2674983	30	
23	0	9.6770302	390	9.9443775	114	9.7326527	504	0.2673473	0	37
	30	9.6771471	390	9.9443433	113	9.7328038	503	0.2671962	30	
24	0	9.6772640	389	9.9443092	114	9.7329547	504	0.2670453	0	36
	30	9.6773808	389	9.9442750	113	9.7331057	503	0.2668943	30	
25	0	9.6774975	389	9.9442409	114	9.7332566	503	0.2667434	0	35
	30	9.6776142	389	9.9442067	114	9.7334075	503	0.2665925	30	
26	0	9.6777309	389	9.9441725	114	9.7335584	503	0.2664416	0	34
	30	9.6778476	388	9.9441383	114	9.7337093	502	0.2662907	30	
27	0	9.6779642	388	9.9441041	114	9.7338601	503	0.2661399	0	33
	30	9.6780807	389	9.9440698	114	9.7340109	502	0.2659891	30	
28	0	9.6781972	389	9.9440356	114	9.7341616	503	0.2658384	0	32
	30	9.6783137	388	9.9440013	114	9.7343124	502	0.2656876	30	
29	0	9.6784301	389	9.9439671	115	9.7344631	502	0.2655369	0	31
	30	9.6785465	388	9.9439328	114	9.7346137	503	0.2653863	30	
30	0	9.6786629		9.9438985		9.7347644		0.2652356	0	30
″	′	l. cosin.	10″ dif.	l. sin.	d. 10″	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6786629	388	9.9438985	114	9.7347644	502	0.2652356	0	30
	30	9.6787792	388	9.9438642	114	9.7349150	502	0.2650850	30	
31	0	9.6788955	387	9.9438299	115	9.7350656	502	0.2649344	0	29
	30	9.6790117	388	9.9437956	115	9.7352162	501	0.2647838	30	
32	0	9.6791279	387	9.9437612	114	9.7353667	502	0.2646333	0	28
	30	9.6792441	387	9.9437269	115	9.7355172	502	0.2644828	30	
33	0	9.6793602	387	9.9436925	114	9.7356677	501	0.2643323	0	27
	30	9.6794763	387	9.9436581	114	9.7358181	502	0.2641819	30	
34	0	9.6795923	387	9.9436238	115	9.7359685	502	0.2640315	0	26
	30	9.6797083	387	9.9435894	115	9.7361189	502	0.2638811	30	
35	0	9.6798243	386	9.9435549	114	9.7362693	501	0.2637307	0	25
	30	9.6799402	386	9.9435205	114	9.7364196	501	0.2635804	30	
36	0	9.6800560	387	9.9434861	115	9.7365699	501	0.2634301	0	24
	30	9.6801719	386	9.9434516	114	9.7367202	501	0.2632798	30	
37	0	9.6802877	386	9.9434172	115	9.7368705	501	0.2631295	0	23
	30	9.6804034	386	9.9433827	115	9.7370207	501	0.2629793	30	
38	0	9.6805191	386	9.9433482	115	9.7371709	501	0.2628291	0	22
	30	9.6806348	386	9.9433138	115	9.7373211	500	0.2626789	30	
39	0	9.6807504	386	9.9432792	115	9.7374712	500	0.2625288	0	21
	30	9.6808660	385	9.9432447	115	9.7376213	500	0.2623787	30	
40	0	9.6809816	385	9.9432102	115	9.7377714	500	0.2622286	0	20
	30	9.6810971	385	9.9431757	116	9.7379214	501	0.2620786	30	
41	0	9.6812126	385	9.9431411	115	9.7380715	500	0.2619285	0	19
	30	9.6813280	385	9.9431065	115	9.7382215	500	0.2617785	30	
42	0	9.6814434	385	9.9430720	116	9.7383714	500	0.2616286	0	18
	30	9.6815588	384	9.9430374	116	9.7385214	500	0.2614786	30	
43	0	9.6816741	384	9.9430028	116	9.7386713	500	0.2613287	0	17
	30	9.6817894	384	9.9429682	116	9.7388212	499	0.2611788	30	
44	0	9.6819046	384	9.9429335	115	9.7389710	500	0.2610290	0	16
	30	9.6820198	384	9.9428989	115	9.7391209	499	0.2608791	30	
45	0	9.6821349	384	9.9428643	116	9.7392707	499	0.2607293	0	15
	30	9.6822501	383	9.9428296	116	9.7394206	499	0.2605795	30	
46	0	9.6823651	384	9.9427949	115	9.7395702	499	0.2604298	0	14
	30	9.6824802	383	9.9427602	115	9.7397199	499	0.2602801	30	
47	0	9.6825952	383	9.9427255	115	9.7398696	499	0.2601304	0	13
	30	9.6827101	383	9.9426908	115	9.7400193	499	0.2599807	30	
48	0	9.6828250	383	9.9426561	116	9.7401689	499	0.2598311	0	12
	30	9.6829399	383	9.9426214	116	9.7403185	499	0.2596815	30	
49	0	9.6830548	382	9.9425866	115	9.7404681	499	0.2595319	0	11
	30	9.6831696	382	9.9425519	116	9.7406177	498	0.2593823	30	
50	0	9.6832843	383	9.9425171	116	9.7407672	498	0.2592328	0	10
	30	9.6833990	383	9.9424823	116	9.7409167	498	0.2590833	30	
51	0	9.6835137	382	9.9424476	116	9.7410662	498	0.2589338	0	9
	30	9.6836284	382	9.9424128	117	9.7412156	498	0.2587844	30	
52	0	9.6837430	381	9.9423779	116	9.7413650	498	0.2586350	0	8
	30	9.6838575	382	9.9423431	116	9.7415144	498	0.2584856	30	
53	0	9.6839720	382	9.9423083	116	9.7416638	498	0.2583362	0	7
	30	9.6840865	382	9.9422734	116	9.7418131	498	0.2581869	30	
54	0	9.6842010	381	9.9422386	117	9.7419624	498	0.2580376	0	6
	30	9.6843154	381	9.9422037	116	9.7421117	497	0.2578883	30	
55	0	9.6844297	381	9.9421688	116	9.7422609	498	0.2577391	0	5
	30	9.6845441	381	9.9421339	116	9.7424102	497	0.2575898	30	
56	0	9.6846583	381	9.9420990	117	9.7425594	497	0.2574406	0	4
	30	9.6847726	381	9.9420641	117	9.7427085	498	0.2572915	30	
57	0	9.6848868	381	9.9420291	116	9.7428577	497	0.2571423	0	3
	30	9.6850010	380	9.9419942	117	9.7430068	497	0.2569932	30	
58	0	9.6851151	380	9.9419592	116	9.7431559	497	0.2568441	0	2
	30	9.6852292	380	9.9419242	116	9.7433049	497	0.2566951	30	
59	0	9.6853432	381	9.9418893	117	9.7434540	497	0.2565460	0	1
	30	9.6854573	380	9.9418543	117	9.7436030	497	0.2563970	30	
60	0	9.6855712		9.9418193		9.7437520		0.2562480	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
0	0	9.6855712	380	9.9418193	117	9.7437520	496	0.2562480	0	60
	30	9.6856852	379	9.9417842	116	9.7439009	497	0.2560991	30	
1	0	9.6857991	379	9.9417492	117	9.7440499	496	0.2559501	0	59
	30	9.6859129	380	9.9417142	117	9.7441987	497	0.2558013	30	
2	0	9.6860267	380	9.9416791	117	9.7443476	496	0.2556524	0	58
	30	9.6861405	379	9.9416440	116	9.7444966	496	0.2555035	30	
3	0	9.6862542	380	9.9416090	117	9.7446453	496	0.2553547	0	57
	30	9.6863679	379	9.9415739	117	9.7447941	496	0.2552059	30	
4	0	9.6864816	379	9.9415388	117	9.7449428	496	0.2550572	0	56
	30	9.6865952	379	9.9415037	118	9.7450916	496	0.2549084	30	
5	0	9.6867088	379	9.9414685	117	9.7452403	496	0.2547597	0	55
	30	9.6868224	378	9.9414334	117	9.7453890	495	0.2546110	30	
6	0	9.6869359	378	9.9413982	117	9.7455376	496	0.2544624	0	54
	30	9.6870493	378	9.9413631	118	9.7456863	495	0.2543137	30	
7	0	9.6871628	378	9.9413279	117	9.7458349	495	0.2541651	0	53
	30	9.6872761	378	9.9412927	117	9.7459834	496	0.2540166	30	
8	0	9.6873895	378	9.9412575	117	9.7461320	495	0.2538680	0	52
	30	9.6875028	378	9.9412223	117	9.7462805	495	0.2537195	30	
9	0	9.6876161	377	9.9411871	118	9.7464290	495	0.2535710	0	51
	30	9.6877293	378	9.9411518	117	9.7465775	495	0.2534225	30	
10	0	9.6878425	377	9.9411166	118	9.7467259	495	0.2532741	0	50
	30	9.6879557	377	9.9410813	117	9.7468743	495	0.2531257	30	
11	0	9.6880688	377	9.9410461	118	9.7470227	495	0.2529773	0	49
	30	9.6881819	377	9.9410108	118	9.7471711	494	0.2528289	30	
12	0	9.6882949	377	9.9409755	118	9.7473194	495	0.2526806	0	48
	30	9.6884079	377	9.9409402	118	9.7474677	495	0.2525323	30	
13	0	9.6885209	376	9.9409048	117	9.7476160	494	0.2523840	0	47
	30	9.6886338	376	9.9408695	118	9.7477643	494	0.2522357	30	
14	0	9.6887467	376	9.9408342	118	9.7479125	494	0.2520875	0	46
	30	9.6888595	376	9.9407988	118	9.7480607	494	0.2519393	30	
15	0	9.6889723	376	9.9407634	117	9.7482089	494	0.2517911	0	45
	30	9.6890851	376	9.9407281	118	9.7483570	494	0.2516430	30	
16	0	9.6891978	376	9.9406927	118	9.7485052	493	0.2514948	0	44
	30	9.6893105	376	9.9406573	118	9.7486533	493	0.2513467	30	
17	0	9.6894232	375	9.9406219	119	9.7488013	494	0.2511987	0	43
	30	9.6895358	375	9.9405864	118	9.7489494	493	0.2510506	30	
18	0	9.6896484	375	9.9405510	118	9.7490974	493	0.2509026	0	42
	30	9.6897609	375	9.9405155	118	9.7492454	493	0.2507546	30	
19	0	9.6898734	375	9.9404801	119	9.7493934	493	0.2506066	0	41
	30	9.6899859	375	9.9404446	118	9.7495413	493	0.2504587	30	
20	0	9.6900983	375	9.9404091	118	9.7496892	493	0.2503108	0	40
	30	9.6902107	375	9.9403736	118	9.7498371	493	0.2501629	30	
21	0	9.6903231	374	9.9403381	119	9.7499850	493	0.2500150	0	39
	30	9.6904354	374	9.9403026	119	9.7501328	493	0.2498672	30	
22	0	9.6905476	375	9.9402670	118	9.7502806	493	0.2497194	0	38
	30	9.6906599	374	9.9402315	119	9.7504284	493	0.2495716	30	
23	0	9.6907721	374	9.9401959	118	9.7505762	492	0.2494238	0	37
	30	9.6908842	374	9.9401603	118	9.7507239	492	0.2492761	30	
24	0	9.6909964	373	9.9401248	119	9.7508716	492	0.2491284	0	36
	30	9.6911084	374	9.9400892	119	9.7510193	492	0.2489807	30	
25	0	9.6912205	373	9.9400536	118	9.7511669	492	0.2488331	0	35
	30	9.6913325	373	9.9400179	119	9.7513146	492	0.2486854	30	
26	0	9.6914445	373	9.9399823	119	9.7514622	492	0.2485378	0	34
	30	9.6915564	373	9.9399466	118	9.7516097	492	0.2483903	30	
27	0	9.6916683	373	9.9399110	119	9.7517573	492	0.2482427	0	33
	30	9.6917801	373	9.9398753	119	9.7519048	492	0.2480952	30	
28	0	9.6918919	373	9.9398396	119	9.7520523	492	0.2479477	0	32
	30	9.6920037	373	9.9398039	119	9.7521998	491	0.2478002	30	
29	0	9.6921155	372	9.9397682	119	9.7523472	492	0.2476528	0	31
	30	9.6922272	372	9.9397325	119	9.7524947	491	0.2475053	30	
30	0	9.6923388		9.9396968		9.7526420		0.2473580	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.6923388	372	9.9396968	119	9.7526420	492	0.2473580	0	30
	30	9.6924504	372	9.9396610	119	9.7527894	491	0.2472106	30	
31	0	9.6925620	372	9.9396253	119	9.7529368	491	0.2470632	0	29
	30	9.6926736	372	9.9395895	119	9.7530841	491	0.2469159	30	
32	0	9.6927851	372	9.9395537	119	9.7532314	491	0.2467686	0	28
	30	9.6928966	371	9.9395179	119	9.7533786	491	0.2466214	30	
33	0	9.6930080	371	9.9394821	119	9.7535259	491	0.2464741	0	27
	30	9.6931194	371	9.9394463	119	9.7536731	491	0.2463269	30	
34	0	9.6932308	371	9.9394105	120	9.7538203	490	0.2461797	0	26
	30	9.6933421	371	9.9393746	119	9.7539674	491	0.2460326	30	
35	0	9.6934534	371	9.9393388	120	9.7541146	490	0.2458854	0	25
	30	9.6935646	371	9.9393029	119	9.7542617	490	0.2457383	30	
36	0	9.6936758	371	9.9392671	120	9.7544088	490	0.2455912	0	24
	30	9.6937870	371	9.9392312	120	9.7545558	491	0.2454442	30	
37	0	9.6938981	371	9.9391953	120	9.7547029	490	0.2452971	0	23
	30	9.6940092	371	9.9391593	119	9.7548499	490	0.2451501	30	
38	0	9.6941203	370	9.9391234	120	9.7549969	490	0.2450031	0	22
	30	9.6942313	370	9.9390875	120	9.7551438	490	0.2448562	30	
39	0	9.6943423	370	9.9390515	119	9.7552908	489	0.2447092	0	21
	30	9.6944533	369	9.9390156	120	9.7554377	489	0.2445623	30	
40	0	9.6945642	369	9.9389796	120	9.7555846	489	0.2444154	0	20
	30	9.6946750	370	9.9389436	120	9.7557314	490	0.2442686	30	
41	0	9.6947859	369	9.9389076	120	9.7558783	489	0.2441217	0	19
	30	9.6948967	369	9.9388716	120	9.7560251	489	0.2439749	03	
42	0	9.6950074	369	9.9388356	120	9.7561718	490	0.2438282	0	18
	30	9.6951182	369	9.9387995	120	9.7563186	489	0.2436814	30	
43	0	9.6952288	369	9.9387635	120	9.7564653	489	0.2435347	0	17
	30	9.6953395	369	9.9387274	120	9.7566120	489	0.2433880	30	
44	0	9.6954501	369	9.9386914	121	9.7567587	489	0.2432413	0	16
	30	9.6955607	368	9.9386553	120	9.7569054	489	0.2430946	30	
45	0	9.6956712	368	9.9386192	120	9.7570520	489	0.2429480	0	15
	30	9.6957817	368	9.9385831	121	9.7571986	489	0.2428014	30	
46	0	9.6958922	368	9.9385470	121	9.7573452	489	0.2426548	0	14
	30	9.6960026	368	9.9385108	120	9.7574918	488	0.2425082	30	
47	0	9.6961130	368	9.9384747	121	9.7576383	488	0.2423617	0	13
	30	9.6962233	368	9.9384385	120	9.7577848	488	0.2422152	30	
48	0	9.6963336	368	9.9384024	121	9.7579313	488	0.2420687	0	12
	30	9.6964439	368	9.9383662	121	9.7580777	488	0.2419223	30	
49	0	9.6965541	368	9.9383300	121	9.7582242	488	0.2417758	0	11
	30	9.6966643	368	9.9382938	121	9.7583706	488	0.2416294	30	
50	0	9.6967745	367	9.9382576	121	9.7585170	487	0.2414830	0	10
	30	9.6968846	367	9.9382213	121	9.7586633	488	0.2413367	30	
51	0	9.6969947	367	9.9381851	121	9.7588096	488	0.2411904	0	9
	30	9.6971048	367	9.9381488	121	9.7589559	488	0.2410441	30	
52	0	9.6972148	367	9.9381126	121	9.7591022	488	0.2408978	0	8
	30	9.6973248	366	9.9380763	121	9.7592485	487	0.2407515	30	
53	0	9.6974347	366	9.9380400	121	9.7593947	488	0.2406053	0	7
	30	9.6975446	366	9.9380037	121	9.7595409	488	0.2404591	30	
54	0	9.6976545	366	9.9379674	121	9.7596871	487	0.2403129	0	6
	30	9.6977643	366	9.9379310	121	9.7598333	487	0.2401667	30	
55	0	9.6978741	366	9.9378947	121	9.7599794	487	0.2400206	0	5
	30	9.6979839	365	9.9378584	122	9.7601255	487	0.2398745	30	
56	0	9.6980936	365	9.9378220	121	9.7602716	487	0.2397284	0	4
	30	9.6982033	365	9.9377856	121	9.7604176	487	0.2395824	30	
57	0	9.6983129	365	9.9377492	121	9.7605637	487	0.2394363	0	3
	30	9.6984225	365	9.9377128	121	9.7607097	487	0.2392903	30	
58	0	9.6985321	365	9.9376764	121	9.7608557	486	0.2391443	0	2
	30	9.6986416	365	9.9376400	122	9.7610016	487	0.2389984	30	
59	0	9.6987511	365	9.9376035	121	9.7611476	486	0.2388524	0	1
	30	9.6988606	365	9.9375671	122	9.7612935	486	0.2387065	30	
60	0	9.6989700	10″ dif.	9.9375306	10″ d.	9.7614394	10″ dif.	0.2385606	0	0
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

30 deg.

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.6987700	365	9.9375306	121	9.7614394	486	0.2385606	0	60
	30	9.6990794	364	9.9374942	122	9.7615852	487	0.2384148	30	
1	0	9.6993887	365	9.9374577	122	9.7617311	486	0.2382689	0	59
	30	9.6996981	364	9.9374212	122	9.7618769	486	0.2381231	30	
2	0	9.6994073	365	9.9373847	122	9.7620227	486	0.2379773	0	58
	30	9.6995166	364	9.9373481	121	9.7621684	486	0.2378316	30	
3	0	9.6996258	364	9.9373116	122	9.7623142	486	0.2376858	0	57
	30	9.6997349	364	9.9372751	122	9.7624599	486	0.2375401	30	
4	0	9.6998441	363	9.9372385	122	9.7626056	485	0.2373944	0	56
	30	9.6999532	363	9.9372019	122	9.7627513	485	0.2372487	30	
5	0	9.7000622	364	9.9371653	122	9.7628969	485	0.2371031	0	55
	30	9.7001713	363	9.9371287	122	9.7630425	486	0.2369575	30	
6	0	9.7002802	364	9.9370921	122	9.7631881	485	0.2368119	0	54
	30	9.7003892	363	9.9370555	122	9.7633337	485	0.2366663	30	
7	0	9.7004981	363	9.9370189	122	9.7634792	485	0.2365208	0	53
	30	9.7006070	363	9.9369822	122	9.7636247	485	0.2363753	30	
8	0	9.7007158	363	9.9369456	123	9.7637702	485	0.2362298	0	52
	30	9.7008246	363	9.9369089	122	9.7639157	485	0.2360843	30	
9	0	9.7009334	362	9.9368722	122	9.7640612	484	0.2359388	0	51
	30	9.7010421	362	9.9368355	122	9.7642066	485	0.2357934	30	
10	0	9.7011508	362	9.9367988	122	9.7643520	485	0.2356480	0	50
	30	9.7012595	362	9.9367621	123	9.7644974	484	0.2355026	30	
11	0	9.7013681	362	9.9367254	123	9.7646427	485	0.2353573	0	49
	30	9.7014767	361	9.9366886	122	9.7647881	484	0.2352119	30	
12	0	9.7015852	362	9.9366519	123	9.7649334	484	0.2350666	0	48
	30	9.7016937	362	9.9366151	123	9.7650786	485	0.2349214	30	
13	0	9.7018022	361	9.9365783	123	9.7652239	484	0.2347761	0	47
	30	9.7019106	362	9.9365415	123	9.7653691	484	0.2346309	30	
14	0	9.7020190	362	9.9365047	123	9.7655143	484	0.2344857	0	46
	30	9.7021274	361	9.9364679	123	9.7656595	484	0.2343405	30	
15	0	9.7022357	361	9.9364311	123	9.7658047	484	0.2341953	0	45
	30	9.7023440	361	9.9363942	123	9.7659498	484	0.2340502	30	
16	0	9.7024523	361	9.9363574	123	9.7660949	484	0.2339051	0	44
	30	9.7025605	361	9.9363205	123	9.7662400	484	0.2337600	30	
17	0	9.7026687	360	9.9362836	123	9.7663851	483	0.2336149	0	43
	30	9.7027768	361	9.9362467	123	9.7665301	484	0.2334699	30	
18	0	9.7028849	361	9.9362098	123	9.7666751	484	0.2333249	0	42
	30	9.7029930	360	9.9361729	123	9.7668201	484	0.2331799	30	
19	0	9.7031011	360	9.9361360	123	9.7669651	483	0.2330349	0	41
	30	9.7032091	360	9.9360990	123	9.7671101	483	0.2328899	30	
20	0	9.7033170	360	9.9360621	124	9.7672550	483	0.2327450	0	40
	30	9.7034250	360	9.9360251	123	9.7673999	483	0.2326001	30	
21	0	9.7035329	359	9.9359881	123	9.7675448	482	0.2324552	0	39
	30	9.7036407	360	9.9359511	123	9.7676896	483	0.2323104	30	
22	0	9.7037486	359	9.9359141	123	9.7678344	483	0.2321656	0	38
	30	9.7038563	360	9.9358771	123	9.7679792	483	0.2320208	30	
23	0	9.7039641	359	9.9358401	124	9.7681240	483	0.2318760	0	37
	30	9.7040718	359	9.9358030	123	9.7682688	482	0.2317312	30	
24	0	9.7041795	359	9.9357660	124	9.7684135	482	0.2315865	0	36
	30	9.7042871	359	9.9357289	123	9.7685582	483	0.2314418	30	
25	0	9.7043947	359	9.9356918	123	9.7687029	482	0.2312971	0	35
	30	9.7045023	359	9.9356548	124	9.7688476	482	0.2311524	30	
26	0	9.7046099	358	9.9356177	124	9.7689922	482	0.2310078	0	34
	30	9.7047174	358	9.9355805	123	9.7691368	482	0.2308632	30	
27	0	9.7048248	358	9.9355434	124	9.7692814	482	0.2307186	0	33
	30	9.7049323	358	9.9355063	124	9.7694260	482	0.2305740	30	
28	0	9.7050397	357	9.9354691	124	9.7695705	482	0.2304295	0	32
	30	9.7051470	358	9.9354320	124	9.7697151	481	0.2302849	30	
29	0	9.7052543	358	9.9353948	124	9.7698596	481	0.2301404	0	31
	30	9.7053616	358	9.9353576	124	9.7700040	482	0.2299960	30	
30	0	9.7054689		9.9353204		9.7701485		0.2298515	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

59 deg.

30 deg.

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7054689	357	9.9353204	124	9.7701485	481	0.2298515	0	30
	30	9.7055761	357	9.9352832	124	9.7702929	482	0.2297071	30	
31	0	9.7056833	357	9.9352459	124	9.7704373	482	0.2295627	0	29
	30	9.7057904	357	9.9352087	124	9.7705817	481	0.2294183	30	
32	0	9.7058975	357	9.9351715	125	9.7707261	481	0.2292739	0	28
	30	9.7060046	357	9.9351342	124	9.7708704	481	0.2291296	30	
33	0	9.7061116	357	9.9350969	124	9.7710147	481	0.2289853	0	27
	30	9.7062186	357	9.9350596	124	9.7711590	481	0.2288410	30	
34	0	9.7063256	357	9.9350223	124	9.7713033	481	0.2286967	0	26
	30	9.7064325	357	9.9349850	124	9.7714475	481	0.2285525	30	
35	0	9.7065394	357	9.9349477	124	9.7715917	481	0.2284083	0	25
	30	9.7066463	356	9.9349104	125	9.7717359	481	0.2282641	30	
36	0	9.7067531	356	9.9348730	124	9.7718801	481	0.2281199	0	24
	30	9.7068599	356	9.9348356	124	9.7720243	480	0.2279757	30	
37	0	9.7069667	355	9.9347983	125	9.7721684	480	0.2278316	0	23
	30	9.7070734	355	9.9347609	125	9.7723125	480	0.2276875	30	
38	0	9.7071801	355	9.9347235	125	9.7724566	480	0.2275434	0	22
	30	9.7072867	356	9.9346861	125	9.7726006	481	0.2273994	30	
39	0	9.7073933	356	9.9346486	124	9.7727447	480	0.2272553	0	21
	30	9.7074999	355	9.9346112	125	9.7728887	480	0.2271113	30	
40	0	9.7076064	355	9.9345738	125	9.7730327	480	0.2269673	0	20
	30	9.7077129	356	9.9345363	125	9.7731766	480	0.2268234	30	
41	0	9.7078194	355	9.9344988	125	9.7733206	480	0.2266794	0	19
	30	9.7079259	354	9.9344613	125	9.7734645	480	0.2265355	30	
42	0	9.7080323	354	9.9344238	125	9.7736084	480	0.2263916	0	18
	30	9.7081386	355	9.9343863	125	9.7737523	479	0.2262477	30	
43	0	9.7082450	354	9.9343488	125	9.7738961	480	0.2261039	0	17
	30	9.7083512	355	9.9343113	125	9.7740400	479	0.2259600	30	
44	0	9.7084575	354	9.9342737	125	9.7741838	479	0.2258162	0	16
	30	9.7085637	354	9.9342362	126	9.7743276	479	0.2256724	30	
45	0	9.7086699	354	9.9341986	125	9.7744713	479	0.2255287	0	15
	30	9.7087761	354	9.9341610	125	9.7746151	479	0.2253849	30	
46	0	9.7088822	354	9.9341234	125	9.7747588	479	0.2252412	0	14
	30	9.7089883	353	9.9340858	125	9.7749025	479	0.2250975	30	
47	0	9.7090943	354	9.9340482	126	9.7750462	478	0.2249538	0	13
	30	9.7092003	354	9.9340105	125	9.7751898	479	0.2248102	30	
48	0	9.7093063	353	9.9339729	126	9.7753334	479	0.2246666	0	12
	30	9.7094123	353	9.9339352	125	9.7754770	479	0.2245230	30	
49	0	9.7095182	353	9.9338976	126	9.7756206	479	0.2243794	0	11
	30	9.7096240	353	9.9338599	126	9.7757642	478	0.2242358	30	
50	0	9.7097299	353	9.9338222	126	9.7759077	479	0.2240923	0	10
	30	9.7098357	352	9.9337845	126	9.7760512	479	0.2239488	30	
51	0	9.7099415	352	9.9337467	125	9.7761947	478	0.2238053	0	9
	30	9.7100472	352	9.9337090	126	9.7763382	478	0.2236618	30	
52	0	9.7101529	352	9.9336713	126	9.7764816	478	0.2235184	0	8
	30	9.7102586	352	9.9336335	126	9.7766251	478	0.2233749	30	
53	0	9.7103642	352	9.9335957	126	9.7767685	478	0.2232315	0	7
	30	9.7104698	352	9.9335579	126	9.7769118	478	0.2230882	30	
54	0	9.7105753	352	9.9335201	126	9.7770552	478	0.2229448	0	6
	30	9.7106809	351	9.9334823	126	9.7771985	478	0.2228015	30	
55	0	9.7107863	352	9.9334445	126	9.7773418	478	0.2226582	0	5
	30	9.7108918	351	9.9334067	126	9.7774851	478	0.2225149	30	
56	0	9.7109972	352	9.9333688	126	9.7776284	478	0.2223716	0	4
	30	9.7111026	351	9.9333310	127	9.7777716	478	0.2222284	30	
57	0	9.7112080	351	9.9332931	126	9.7779149	477	0.2220851	0	3
	30	9.7113133	351	9.9332552	126	9.7780581	477	0.2219419	30	
58	0	9.7114186	350	9.9332173	126	9.7782012	478	0.2217988	0	2
	30	9.7115238	351	9.9331794	126	9.7783444	477	0.2216556	30	
59	0	9.7116290	351	9.9331415	127	9.7784875	477	0.2215125	0	1
	30	9.7117342	350	9.9331035	126	9.7786307	477	0.2213693	30	
60	0	9.7118393		9.9330656		9.7787737		0.2212263	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

59 deg.

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7118393	351	9.9330656	127	9.7787737	477	0.2212263	0	60
	30	9.7119444	351	9.9330276	126	9.7789168	477	0.2210832	30	
1	0	9.7120495	350	9.9329897	127	9.7790599	476	0.2209401	0	59
	30	9.7121546	350	9.9329517	127	9.7792029	476	0.2207971	30	
2	0	9.7122596	350	9.9329137	127	9.7793459	476	0.2206541	0	58
	30	9.7123645	350	9.9328757	127	9.7794889	476	0.2205111	30	
3	0	9.7124695	349	9.9328376	126	9.7796318	477	0.2203682	0	57
	30	9.7125744	349	9.9327996	127	9.7797748	476	0.2202252	30	
4	0	9.7126792	350	9.9327616	127	9.7799177	476	0.2200823	0	56
	30	9.7127841	349	9.9327235	127	9.7800606	476	0.2199394	30	
5	0	9.7128889	349	9.9326854	127	9.7802034	476	0.2197966	0	55
	30	9.7129936	349	9.9326473	127	9.7803463	476	0.2196537	30	
6	0	9.7130983	350	9.9326092	127	9.7804891	476	0.2195109	0	54
	30	9.7132030	349	9.9325711	127	9.7806319	476	0.2193681	30	
7	0	9.7133077	349	9.9325330	127	9.7807747	476	0.2192253	0	53
	30	9.7134123	349	9.9324949	127	9.7809174	476	0.2190826	30	
8	0	9.7135169	349	9.9324567	127	9.7810602	476	0.2189398	0	52
	30	9.7136215	348	9.9324186	127	9.7812029	476	0.2187971	30	
9	0	9.7137260	348	9.9323804	127	9.7813456	476	0.2186544	0	51
	30	9.7138305	348	9.9323422	127	9.7814883	475	0.2185117	30	
10	0	9.7139349	348	9.9323040	127	9.7816309	476	0.2183691	0	50
	30	9.7140394	348	9.9322658	127	9.7817735	476	0.2182265	30	
11	0	9.7141437	348	9.9322276	128	9.7819162	475	0.2180838	0	49
	30	9.7142481	348	9.9321893	127	9.7820587	476	0.2179413	30	
12	0	9.7143524	348	9.9321511	128	9.7822013	475	0.2177987	0	48
	30	9.7144567	347	9.9321128	127	9.7823438	476	0.2176562	30	
13	0	9.7145609	348	9.9320745	128	9.7824864	475	0.2175136	0	47
	30	9.7146651	348	9.9320363	128	9.7826289	475	0.2173711	30	
14	0	9.7147693	347	9.9319980	128	9.7827713	475	0.2172287	0	46
	30	9.7148735	347	9.9319597	128	9.7829138	475	0.2170862	30	
15	0	9.7149776	347	9.9319213	127	9.7830562	476	0.2169438	0	45
	30	9.7150817	346	9.9318830	128	9.7831986	475	0.2168014	30	
16	0	9.7151857	347	9.9318447	128	9.7833410	475	0.2166590	0	44
	30	9.7152897	347	9.9318063	128	9.7834834	475	0.2165166	30	
17	0	9.7153937	346	9.9317679	128	9.7836258	474	0.2163742	0	43
	30	9.7154976	347	9.9317295	128	9.7837681	474	0.2162319	30	
18	0	9.7156015	347	9.9316911	128	9.7839104	474	0.2160896	0	42
	30	9.7157054	346	9.9316527	128	9.7840527	474	0.2159473	30	
19	0	9.7158092	346	9.9316143	128	9.7841949	474	0.2158051	0	41
	30	9.7159130	346	9.9315759	128	9.7843372	474	0.2156628	30	
20	0	9.7160168	346	9.9315374	128	9.7844794	474	0.2155206	0	40
	30	9.7161205	346	9.9314990	129	9.7846216	474	0.2153784	30	
21	0	9.7162243	345	9.9314605	128	9.7847638	474	0.2152362	0	39
	30	9.7163279	346	9.9314220	128	9.7849059	474	0.2150941	30	
22	0	9.7164316	345	9.9313835	128	9.7850481	473	0.2149519	0	38
	30	9.7165352	345	9.9313450	129	9.7851902	473	0.2148098	30	
23	0	9.7166387	345	9.9313065	129	9.7853323	473	0.2146677	0	37
	30	9.7167423	345	9.9312679	128	9.7854743	474	0.2145257	30	
24	0	9.7168458	344	9.9312294	129	9.7856164	473	0.2143836	0	36
	30	9.7169492	345	9.9311908	128	9.7857584	473	0.2142416	30	
25	0	9.7170526	345	9.9311522	128	9.7859004	473	0.2140996	0	35
	30	9.7171560	345	9.9311136	128	9.7860424	473	0.2139576	30	
26	0	9.7172594	345	9.9310750	128	9.7861844	473	0.2138156	0	34
	30	9.7173627	345	9.9310364	128	9.7863263	473	0.2136737	30	
27	0	9.7174660	345	9.9309978	129	9.7864682	473	0.2135318	0	33
	30	9.7175693	344	9.9309592	129	9.7866101	473	0.2133899	30	
28	0	9.7176725	344	9.9309205	129	9.7867520	473	0.2132480	0	32
	30	9.7177757	344	9.9308819	129	9.7868939	473	0.2131061	30	
29	0	9.7178789	344	9.9308432	129	9.7870357	473	0.2129643	0	31
	30	9.7179820	344	9.9308045	129	9.7871775	473	0.2128225	30	
30	0	9.7180851		9.9307658		9.7873193		0.2126807	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7180851	344	9.9307658	129	9.7873193	473	0.2126807	0	30
	30	9.7181882	343	9.9307271	129	9.7874611	472	0.2125389	30	
31	0	9.7184912	343	9.9306883	129	9.7876028	473	0.2123972	0	29
	30	9.7185942	343	9.9306496	129	9.7877446	472	0.2122554	30	
32	0	9.7184971	344	9.9306109	130	9.7878863	472	0.2121137	0	28
	30	9.7186001	343	9.9305721	129	9.7880280	472	0.2119720	30	
33	0	9.7187030	342	9.9305333	129	9.7881696	473	0.2118304	0	27
	30	9.7188058	343	9.9304945	129	9.7883113	472	0.2116887	30	
34	0	9.7189086	343	9.9304557	129	9.7884529	472	0.2115471	0	26
	30	9.7190114	343	9.9304169	129	9.7885945	472	0.2114055	30	
35	0	9.7191142	342	9.9303781	130	9.7887361	472	0.2112639	0	25
	30	9.7192169	342	9.9303392	129	9.7888777	472	0.2111223	30	
36	0	9.7193196	342	9.9303004	130	9.7890192	472	0.2109808	0	24
	30	9.7194223	342	9.9302615	129	9.7891607	472	0.2108393	30	
37	0	9.7195249	342	9.9302226	129	9.7893023	471	0.2106977	0	23
	30	9.7196275	342	9.9301837	129	9.7894437	472	0.2105563	30	
38	0	9.7197300	342	9.9301448	129	9.7895852	471	0.2104148	0	22
	30	9.7198326	341	9.9301059	130	9.7897266	472	0.2102734	30	
39	0	9.7199350	342	9.9300670	130	9.7898681	471	0.2101319	0	21
	30	9.7200375	342	9.9300281	130	9.7900095	471	0.2099905	30	
40	0	9.7201399	342	9.9299891	130	9.7901508	472	0.2098492	0	20
	30	9.7202423	341	9.9299501	130	9.7902922	471	0.2097078	30	
41	0	9.7203447	341	9.9299112	130	9.7904335	471	0.2095665	0	19
	30	9.7204470	341	9.9298722	130	9.7905748	471	0.2094252	30	
42	0	9.7205493	341	9.9298332	131	9.7907161	471	0.2092839	0	18
	30	9.7206515	341	9.9297941	130	9.7908574	471	0.2091426	30	
43	0	9.7207538	340	9.9297551	130	9.7909987	470	0.2090013	0	17
	30	9.7208560	340	9.9297161	131	9.7911399	471	0.2088601	30	
44	0	9.7209581	341	9.9296770	130	9.7912811	471	0.2087189	0	16
	30	9.7210602	341	9.9296379	130	9.7914223	471	0.2085777	30	
45	0	9.7211623	341	9.9295989	131	9.7915635	470	0.2084365	0	15
	30	9.7212644	340	9.9295598	131	9.7917046	471	0.2082954	30	
46	0	9.7213664	340	9.9295207	131	9.7918458	470	0.2081542	0	14
	30	9.7214684	340	9.9294815	130	9.7919869	470	0.2080131	30	
47	0	9.7215704	339	9.9294424	130	9.7921280	470	0.2078720	0	13
	30	9.7216723	340	9.9294033	131	9.7922690	471	0.2077310	30	
48	0	9.7217742	339	9.9293641	131	9.7924101	470	0.2075899	0	12
	30	9.7218760	340	9.9293249	130	9.7925511	470	0.2074489	30	
49	0	9.7219779	339	9.9292857	130	9.7926921	470	0.2073079	0	11
	30	9.7220797	339	9.9292465	130	9.7928331	470	0.2071669	30	
50	0	9.7221814	339	9.9292073	130	9.7929741	470	0.2070259	0	10
	30	9.7222832	339	9.9291681	131	9.7931150	470	0.2068850	30	
51	0	9.7223848	339	9.9291289	131	9.7932560	469	0.2067440	0	9
	30	9.7224865	339	9.9290896	131	9.7933969	469	0.2066031	30	
52	0	9.7225881	339	9.9290504	131	9.7935378	469	0.2064622	0	8
	30	9.7226897	339	9.9290111	131	9.7936786	470	0.2063214	30	
53	0	9.7227913	338	9.9289718	131	9.7938195	469	0.2061805	0	7
	30	9.7228928	339	9.9289325	131	9.7939603	469	0.2060397	30	
54	0	9.7229943	338	9.9288932	131	9.7941011	469	0.2058989	0	6
	30	9.7230958	338	9.9288539	131	9.7942419	469	0.2057581	30	
55	0	9.7231972	338	9.9288145	131	9.7943827	469	0.2056173	0	5
	30	9.7232986	338	9.9287752	131	9.7945234	469	0.2054766	30	
56	0	9.7234000	338	9.9287358	131	9.7946641	469	0.2053359	0	4
	30	9.7235013	338	9.9286965	132	9.7948048	469	0.2051952	30	
57	0	9.7236026	338	9.9286571	132	9.7949455	469	0.2050545	0	3
	30	9.7237039	337	9.9286177	132	9.7950862	469	0.2049138	30	
58	0	9.7238051	337	9.9285783	132	9.7952268	469	0.2047732	0	2
	30	9.7239063	337	9.9285388	131	9.7953675	468	0.2046325	30	
59	0	9.7240075	337	9.9284994	132	9.7955081	468	0.2044919	0	1
	30	9.7241086	337	9.9284599	131	9.7956487	468	0.2043513	30	
60	0	9.7242097		9.9284205		9.7957892		0.2042108	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7242097	337	9.9284205	132	9.7957892	469	0.2042108	0	60
	30	9.7243108	337	9.9283810	132	9.7959298	468	0.2040702	30	
1	0	9.7244118	337	9.9283415	131	9.7960703	468	0.2039297	0	59
	30	9.7245128	337	9.9283020	132	9.7962108	468	0.2037892	30	
2	0	9.7246138	336	9.9282625	132	9.7963513	468	0.2036487	0	58
	30	9.7247147	337	9.9282230	132	9.7964918	468	0.2035082	30	
3	0	9.7248156	337	9.9281834	132	9.7966322	468	0.2033678	0	57
	30	9.7249165	336	9.9281439	132	9.7967726	468	0.2032274	30	
4	0	9.7250174	336	9.9281043	132	9.7969130	468	0.2030870	0	56
	30	9.7251182	336	9.9280647	132	9.7970534	468	0.2029466	30	
5	0	9.7252189	336	9.9280251	132	9.7971938	468	0.2028062	0	55
	30	9.7253197	336	9.9279855	132	9.7973341	468	0.2026659	30	
6	0	9.7254204	336	9.9279459	132	9.7974745	467	0.2025255	0	54
	30	9.7255211	335	9.9279063	132	9.7976148	467	0.2023852	30	
7	0	9.7256217	336	9.9278666	132	9.7977551	467	0.2022449	0	53
	30	9.7257223	336	9.9278270	132	9.7978953	468	0.2021047	30	
8	0	9.7258229	335	9.9277873	132	9.7980356	467	0.2019644	0	52
	30	9.7259235	335	9.9277476	132	9.7981758	468	0.2018242	30	
9	0	9.7260240	335	9.9277079	132	9.7983160	468	0.2016840	0	51
	30	9.7261245	334	9.9276682	132	9.7984562	467	0.2015438	30	
10	0	9.7262249	335	9.9276285	132	9.7985964	467	0.2014036	0	50
	30	9.7263253	335	9.9275888	133	9.7987365	467	0.2012635	30	
11	0	9.7264257	335	9.9275490	132	9.7988767	467	0.2011233	0	49
	30	9.7265261	334	9.9275093	133	9.7990168	467	0.2009832	30	
12	0	9.7266264	334	9.9274695	132	9.7991569	467	0.2008431	0	48
	30	9.7267267	334	9.9274297	132	9.7992969	467	0.2007031	30	
13	0	9.7268269	334	9.9273899	132	9.7994370	467	0.2005630	0	47
	30	9.7269272	334	9.9273501	132	9.7995770	467	0.2004230	30	
14	0	9.7270273	334	9.9273103	133	9.7997170	467	0.2002830	0	46
	30	9.7271275	334	9.9272705	133	9.7998570	467	0.2001430	30	
15	0	9.7272276	334	9.9272306	133	9.7999970	467	0.2000030	0	45
	30	9.7273277	334	9.9271908	133	9.8001370	466	0.1998630	30	
16	0	9.7274278	333	9.9271509	133	9.8002769	467	0.1997231	0	44
	30	9.7275278	334	9.9271110	133	9.8004168	467	0.1995832	30	
17	0	9.7276278	333	9.9270711	133	9.8005567	467	0.1994433	0	43
	30	9.7277278	333	9.9270312	133	9.8006966	466	0.1993034	30	
18	0	9.7278277	333	9.9269913	134	9.8008365	466	0.1991635	0	42
	30	9.7279276	333	9.9269513	133	9.8009763	466	0.1990237	30	
19	0	9.7280275	333	9.9269114	133	9.8011161	466	0.1988839	0	41
	30	9.7281273	333	9.9268714	133	9.8012559	466	0.1987441	30	
20	0	9.7282271	333	9.9268314	133	9.8013957	466	0.1986043	0	40
	30	9.7283269	333	9.9267914	133	9.8015355	466	0.1984645	30	
21	0	9.7284267	332	9.9267514	133	9.8016752	466	0.1983248	0	39
	30	9.7285264	332	9.9267114	133	9.8018149	466	0.1981851	30	
22	0	9.7286260	333	9.9266714	134	9.8019546	466	0.1980454	0	38
	30	9.7287257	332	9.9266314	134	9.8020943	466	0.1979057	30	
23	0	9.7288253	332	9.9265913	134	9.8022340	465	0.1977660	0	37
	30	9.7289249	332	9.9265512	133	9.8023736	466	0.1976264	30	
24	0	9.7290244	332	9.9265112	134	9.8025133	465	0.1974867	0	36
	30	9.7291239	332	9.9254711	134	9.8026529	465	0.1973471	30	
25	0	9.7292234	332	9.9264310	134	9.8027925	465	0.1972075	0	35
	30	9.7293229	331	9.9263908	133	9.8029320	466	0.1970680	30	
26	0	9.7294223	331	9.9263507	134	9.8030716	465	0.1969284	0	34
	30	9.7295217	331	9.9263106	134	9.8032111	465	0.1967889	30	
27	0	9.7296211	331	9.9262704	134	9.8033506	465	0.1966494	0	33
	30	9.7297204	331	9.9262302	134	9.8034901	465	0.1965099	30	
28	0	9.7298197	331	9.9261901	134	9.8036296	465	0.1963704	0	32
	30	9.7299189	331	9.9261499	134	9.8037691	465	0.1962309	30	
29	0	9.7300182	330	9.9261096	134	9.8039085	465	0.1960915	0	31
	30	9.7301174	330	9.9260694	134	9.8040479	465	0.1959521	30	
30	0	9.7302165		9.9260292		9.8041873		0.1958127	0	30
′	″	l. cosin.	10″ dif.	l. sin.	d. 10″	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	dif. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7302165	331	9.9260292	134	9.8041873	465	0.1958127	0	30
	30	9.7303157	330	9.9259889	134	9.8043267	465	0.1956733	30	
31	0	9.7304148	330	9.9259487	134	9.8044661	464	0.1955339	0	29
	30	9.7305138	330	9.9259084	134	9.8046054	465	0.1953946	30	
32	0	9.7306129	330	9.9258681	134	9.8047447	465	0.1952553	0	28
	30	9.7307119	330	9.9258278	134	9.8048841	464	0.1951159	30	
33	0	9.7308109	329	9.9257875	134	9.8050233	465	0.1949767	0	27
	30	9.7309098	330	9.9257472	135	9.8051626	464	0.1948374	30	
34	0	9.7310087	330	9.9257069	135	9.8053019	464	0.1946981	0	26
	30	9.7311076	329	9.9256665	135	9.8054411	464	0.1945589	30	
35	0	9.7312064	330	9.9256261	134	9.8055803	464	0.1944197	0	25
	30	9.7313053	329	9.9255858	135	9.8057195	464	0.1942805	30	
36	0	9.7314040	330	9.9255454	135	9.8058587	464	0.1941413	0	24
	30	9.7315028	329	9.9255050	135	9.8059978	464	0.1940022	30	
37	0	9.7316015	329	9.9254646	135	9.8061370	463	0.1938630	0	23
	30	9.7317002	329	9.9254241	135	9.8062761	463	0.1937239	30	
38	0	9.7317989	328	9.9253837	136	9.8064152	463	0.1935848	0	22
	30	9.7318975	329	9.9253432	135	9.8065543	463	0.1934457	30	
39	0	9.7319961	328	9.9253028	135	9.8066933	464	0.1933067	0	21
	30	9.7320946	329	9.9252623	135	9.8068324	463	0.1931676	30	
40	0	9.7321932	328	9.9252218	135	9.8069714	463	0.1930286	0	20
	30	9.7322917	328	9.9251813	135	9.8071104	463	0.1928896	30	
41	0	9.7323902	328	9.9251408	135	9.8072494	463	0.1927506	0	19
	30	9.7324886	328	9.9251002	135	9.8073884	463	0.1926116	30	
42	0	9.7325870	328	9.9250597	135	9.8075273	463	0.1924727	0	18
	30	9.7326854	328	9.9250191	135	9.8076662	463	0.1923338	30	
43	0	9.7327837	328	9.9249786	136	9.8078052	463	0.1921948	0	17
	30	9.7328820	328	9.9249380	136	9.8079441	462	0.1920559	30	
44	0	9.7329803	328	9.9248974	136	9.8080829	463	0.1919171	0	16
	30	9.7330786	327	9.9248568	136	9.8082218	463	0.1917782	30	
45	0	9.7331768	327	9.9248161	135	9.8083606	463	0.1916394	0	15
	30	9.7332750	327	9.9247755	135	9.8084995	462	0.1915005	30	
46	0	9.7333731	327	9.9247349	136	9.8086383	462	0.1913617	0	14
	30	9.7334712	327	9.9246942	136	9.8087770	463	0.1912230	30	
47	0	9.7335693	327	9.9246535	136	9.8089158	463	0.1910842	0	13
	30	9.7336674	327	9.9246128	136	9.8090546	462	0.1909454	30	
48	0	9.7337654	327	9.9245721	135	9.8091933	462	0.1908067	0	12
	30	9.7338634	327	9.9245314	136	9.8093320	462	0.1906680	30	
49	0	9.7339614	326	9.9244907	136	9.8094707	462	0.1905293	0	11
	30	9.7340593	327	9.9244600	136	9.8096094	462	0.1903906	30	
50	0	9.7341572	327	9.9244092	136	9.8097480	462	0.1902520	0	10
	30	9.7342551	326	9.9243684	136	9.8098867	462	0.1901133	30	
51	0	9.7343529	326	9.9243277	136	9.8100253	462	0.1899747	0	9
	30	9.7344507	326	9.9242869	136	9.8101639	462	0.1898361	30	
52	0	9.7345485	326	9.9242461	136	9.8103025	462	0.1896975	0	8
	30	9.7346463	326	9.9242052	136	9.8104410	462	0.1895590	30	
53	0	9.7347440	326	9.9241644	136	9.8105796	462	0.1894204	0	7
	30	9.7348417	325	9.9241236	137	9.8107181	462	0.1892819	30	
54	0	9.7349393	326	9.9240827	136	9.8108566	462	0.1891434	0	6
	30	9.7350370	325	9.9240418	136	9.8109952	462	0.1890049	30	
55	0	9.7351345	326	9.9240010	137	9.8111336	462	0.1888664	0	5
	30	9.7352321	325	9.9239601	137	9.8112721	461	0.1887279	30	
56	0	9.7353296	325	9.9239191	136	9.8114105	461	0.1885895	0	4
	30	9.7354271	325	9.9238782	136	9.8115489	462	0.1884511	30	
57	0	9.7355246	325	9.9238373	137	9.8116873	461	0.1883127	0	3
	30	9.7356220	325	9.9237963	136	9.8118257	461	0.1881743	30	
58	0	9.7357195	324	9.9237554	137	9.8119641	461	0.1880359	0	2
	30	9.7358168	325	9.9237144	137	9.8121024	461	0.1878976	30	
59	0	9.7359142	324	9.9236734	136	9.8122408	461	0.1877592	0	1
	30	9.7360115	324	9.9236324	137	9.8123791	461	0.1876209	30	
60	0	9.7361088		9.9235914		9.8125174		0.1874826	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ dif.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7361088	324	9.9235914	137	9.8125174	461	0.1874826	0	60
	30	9.7362060	324	9.9235504	137	9.8126566	461	0.1873444	30	
1	0	9.7363032	324	9.9235093	136	9.8127959	461	0.1872061	0	59
	30	9.7364004	324	9.9234683	137	9.8129351	461	0.1870679	30	
2	0	9.7364976	324	9.9234272	137	9.8130744	460	0.1869296	0	58
	30	9.7365947	324	9.9233861	137	9.8132086	460	0.1867914	30	
3	0	9.7366918	324	9.9233450	137	9.8133468	460	0.1866532	0	57
	30	9.7367889	323	9.9233039	137	9.8134849	461	0.1865151	30	
4	0	9.7368859	323	9.9232628	137	9.8136231	460	0.1863769	0	56
	30	9.7369829	323	9.9232217	137	9.8137612	461	0.1862388	30	
5	0	9.7370799	323	9.9231805	137	9.8138993	461	0.1861007	0	55
	30	9.7371768	323	9.9231394	137	9.8140374	461	0.1859626	30	
6	0	9.7372737	323	9.9230982	137	9.8141755	460	0.1858245	0	54
	30	9.7373706	323	9.9230570	137	9.8143136	460	0.1856864	30	
7	0	9.7374675	322	9.9230158	137	9.8144516	460	0.1855484	0	53
	30	9.7375643	323	9.9229746	137	9.8145897	460	0.1854103	30	
8	0	9.7376611	322	9.9229334	137	9.8147277	460	0.1852723	0	52
	30	9.7377578	323	9.9228922	138	9.8148657	460	0.1851343	30	
9	0	9.7378546	322	9.9228509	137	9.8150036	460	0.1849964	0	51
	30	9.7379513	322	9.9228097	138	9.8151416	460	0.1848584	30	
10	0	9.7380479	322	9.9227684	138	9.8152795	460	0.1847205	0	50
	30	9.7381446	322	9.9227271	138	9.8154175	459	0.1845825	30	
11	0	9.7382412	322	9.9226858	138	9.8155554	459	0.1844446	0	49
	30	9.7383377	322	9.9226445	138	9.8156933	459	0.1843067	30	
12	0	9.7384343	321	9.9226032	138	9.8158311	460	0.1841689	0	48
	30	9.7385308	321	9.9225618	138	9.8159690	459	0.1840310	30	
13	0	9.7386273	321	9.9225205	138	9.8161068	459	0.1838932	0	47
	30	9.7387237	322	9.9224791	138	9.8162445	460	0.1837554	30	
14	0	9.7388201	322	9.9224377	138	9.8163824	460	0.1836176	0	46
	30	9.7389165	321	9.9223963	138	9.8165202	459	0.1834798	30	
15	0	9.7390129	321	9.9223549	138	9.8166580	459	0.1833420	0	45
	30	9.7391092	321	9.9223135	138	9.8167957	459	0.1832043	30	
16	0	9.7392055	321	9.9222721	139	9.8169335	459	0.1830665	0	44
	30	9.7393018	321	9.9222306	138	9.8170712	459	0.1829288	30	
17	0	9.7393980	321	9.9221891	138	9.8172089	459	0.1827911	0	43
	30	9.7394942	321	9.9221477	138	9.8173465	459	0.1826535	30	
18	0	9.7395904	320	9.9221062	138	9.8174842	459	0.1825158	0	42
	30	9.7396865	321	9.9220647	138	9.8176218	459	0.1823782	30	
19	0	9.7397827	320	9.9220232	139	9.8177595	458	0.1822405	0	41
	30	9.7398787	321	9.9219817	139	9.8178971	458	0.1821029	30	
20	0	9.7399748	320	9.9219401	138	9.8180347	458	0.1819653	0	40
	30	9.7400708	320	9.9218986	139	9.8181722	459	0.1818278	30	
21	0	9.7401668	320	9.9218570	139	9.8183098	459	0.1816902	0	39
	30	9.7402628	320	9.9218154	138	9.8184473	459	0.1815527	30	
22	0	9.7403587	320	9.9217738	138	9.8185849	458	0.1814151	0	38
	30	9.7404546	320	9.9217322	138	9.8187224	458	0.1812776	30	
23	0	9.7405505	319	9.9216906	139	9.8188599	458	0.1811401	0	37
	30	9.7406463	320	9.9216490	139	9.8189973	459	0.1810027	30	
24	0	9.7407421	320	9.9216073	138	9.8191348	458	0.1808652	0	36
	30	9.7408379	319	9.9215657	139	9.8192722	458	0.1807278	30	
25	0	9.7409337	319	9.9215240	139	9.8194096	458	0.1805904	0	35
	30	9.7410294	319	9.9214823	139	9.8195470	458	0.1804530	30	
26	0	9.7411251	319	9.9214406	139	9.8196844	458	0.1803156	0	34
	30	9.7412207	319	9.9213989	139	9.8198218	458	0.1801782	30	
27	0	9.7413164	318	9.9213572	139	9.8199592	457	0.1800408	0	33
	30	9.7414120	318	9.9213155	139	9.8200965	458	0.1799035	30	
28	0	9.7415075	319	9.9212737	139	9.8202338	458	0.1797662	0	32
	30	9.7416031	318	9.9212320	140	9.8203711	458	0.1796289	30	
29	0	9.7416986	318	9.9211902	139	9.8205084	457	0.1794916	0	31
	30	9.7417940	319	9.9211484	139	9.8206457	457	0.1793543	30	
30	0	9.7418895		9.9211066		9.8207829		0.1792171	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7418835	318	9.9211066	139	9.8207829	458	0.1792171	0	30
	30	9.7419849	318	9.9210648	140	9.8209201	458	0.1790799	30	
31	0	9.7420863	318	9.9210229	139	9.8210574	457	0.1789426	0	29
	30	9.7421757	317	9.9209811	139	9.8211946	457	0.1788054	30	
32	0	9.7422710	318	9.9209393	140	9.8213317	458	0.1786683	0	28
	30	9.7423663	317	9.9208974	140	9.8214689	457	0.1785311	30	
33	0	9.7424616	317	9.9208555	140	9.8216060	458	0.1783940	0	27
	30	9.7425568	317	9.9208136	140	9.8217432	457	0.1782568	30	
34	0	9.7426520	317	9.9207717	140	9.8218803	457	0.1781197	0	26
	30	9.7427472	317	9.9207298	140	9.8220174	457	0.1779826	30	
35	0	9.7428423	317	9.9206878	139	9.8221545	457	0.1778455	0	25
	30	9.7429374	317	9.9206459	140	9.8222915	457	0.1777085	30	
36	0	9.7430325	317	9.9206039	140	9.8224286	457	0.1775714	0	24
	30	9.7431276	317	9.9205620	140	9.8225656	457	0.1774344	30	
37	0	9.7432226	317	9.9205200	140	9.8227026	457	0.1772974	0	23
	30	9.7433176	317	9.9204780	140	9.8228396	457	0.1771604	30	
38	0	9.7434126	316	9.9204360	140	9.8229766	457	0.1770234	0	22
	30	9.7435075	316	9.9203939	140	9.8231136	456	0.1768864	30	
39	0	9.7436024	316	9.9203519	140	9.8232505	457	0.1767495	0	21
	30	9.7436973	316	9.9203098	140	9.8233874	457	0.1766126	30	
40	0	9.7437921	316	9.9202678	140	9.8235244	456	0.1764756	0	20
	30	9.7438870	316	9.9202257	140	9.8236613	456	0.1763387	30	
41	0	9.7439817	316	9.9201836	140	9.8237981	457	0.1762019	0	19
	30	9.7440765	316	9.9201415	140	9.8239350	456	0.1760650	30	
42	0	9.7441712	316	9.9200994	141	9.8240719	456	0.1759281	0	18
	30	9.7442659	316	9.9200572	140	9.8242087	456	0.1757913	30	
43	0	9.7443606	315	9.9200151	141	9.8243455	456	0.1756545	0	17
	30	9.7444552	316	9.9199729	140	9.8244823	456	0.1755177	30	
44	0	9.7445498	316	9.9199308	141	9.8246191	456	0.1753809	0	16
	30	9.7446444	315	9.9198886	141	9.8247558	456	0.1752442	30	
45	0	9.7447390	315	9.9198464	141	9.8248926	456	0.1751074	0	15
	30	9.7448335	315	9.9198042	141	9.8250293	456	0.1749707	30	
46	0	9.7449280	315	9.9197619	140	9.8251660	456	0.1748340	0	14
	30	9.7450224	315	9.9197197	141	9.8253027	456	0.1746973	30	
47	0	9.7451169	314	9.9196775	141	9.8254394	456	0.1745606	0	13
	30	9.7452113	314	9.9196352	141	9.8255761	455	0.1744239	30	
48	0	9.7453056	315	9.9195929	141	9.8257127	456	0.1742873	0	12
	30	9.7454000	314	9.9195506	141	9.8258494	455	0.1741506	30	
49	0	9.7454943	314	9.9195083	141	9.8259860	455	0.1740140	0	11
	30	9.7455886	314	9.9194660	141	9.8261226	455	0.1738774	30	
50	0	9.7456828	314	9.9194237	142	9.8262592	455	0.1737408	0	10
	30	9.7457770	314	9.9193813	141	9.8263957	456	0.1736043	30	
51	0	9.7458712	314	9.9193390	142	9.8265323	455	0.1734677	0	9
	30	9.7459654	314	9.9192966	141	9.8266688	455	0.1733312	30	
52	0	9.7460595	314	9.9192542	141	9.8268053	455	0.1731947	0	8
	30	9.7461536	314	9.9192118	141	9.8269418	455	0.1730582	30	
53	0	9.7462477	314	9.9191694	142	9.8270783	455	0.1729217	0	7
	30	9.7463418	313	9.9191270	142	9.8272148	455	0.1727852	30	
54	0	9.7464358	313	9.9190845	141	9.8273513	454	0.1726487	0	6
	30	9.7465298	313	9.9190421	142	9.8274877	455	0.1725123	30	
55	0	9.7466237	313	9.9189996	142	9.8276241	455	0.1723759	0	5
	30	9.7467176	313	9.9189571	141	9.8277605	455	0.1722395	30	
56	0	9.7468115	313	9.9189146	141	9.8278969	455	0.1721031	0	4
	30	9.7469054	313	9.9188721	141	9.8280333	454	0.1719667	30	
57	0	9.7469992	313	9.9188296	142	9.8281696	455	0.1718304	0	3
	30	9.7470930	313	9.9187871	142	9.8283060	454	0.1716940	30	
58	0	9.7471868	313	9.9187445	142	9.8284423	454	0.1715577	0	2
	30	9.7472806	312	9.9187020	142	9.8285786	454	0.1714214	30	
59	0	9.7473743	312	9.9186594	142	9.8287149	454	0.1712851	0	1
	30	9.7474680	312	9.9186168	142	9.8288512	454	0.1711488	30	
60	0	9.7475617	10″ dif.	9.9185742	10″ d.	9.8289874	10″ dif.	0.1710126	0	0
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7475617	312	9.9185742	142	9.8289874	455	0.1710126	0	60
	30	9.7476533	312	9.9185316	142	9.8291237	454	0.1708763	30	
1	0	9.7477489	312	9.9184890	142	9.8292599	454	0.1707401	0	59
	30	9.7478425	311	9.9184463	142	9.8293961	454	0.1706039	30	
2	0	9.7479360	312	9.9184037	142	9.8295323	454	0.1704677	0	58
	30	9.7480295	312	9.9183610	142	9.8296685	454	0.1703315	30	
3	0	9.7481230	312	9.9183183	142	9.8298047	453	0.1701953	0	57
	30	9.7482165	311	9.9182756	142	9.8299408	454	0.1700592	30	
4	0	9.7483099	311	9.9182329	142	9.8300769	454	0.1699231	0	56
	30	9.7484033	311	9.9181902	142	9.8302131	453	0.1697869	30	
5	0	9.7484967	311	9.9181475	143	9.8303492	453	0.1696508	0	55
	30	9.7485900	311	9.9181047	142	9.8304853	453	0.1695147	30	
6	0	9.7486833	311	9.9180620	143	9.8306213	454	0.1693787	0	54
	30	9.7487766	311	9.9180192	143	9.8307574	453	0.1692426	30	
7	0	9.7488698	311	9.9179764	142	9.8308934	454	0.1691066	0	53
	30	9.7489631	310	9.9179336	142	9.8310294	454	0.1689706	30	
8	0	9.7490562	311	9.9178908	143	9.8311654	454	0.1688346	0	52
	30	9.7491494	311	9.9178480	143	9.8313014	454	0.1686986	30	
9	0	9.7492425	311	9.9178051	142	9.8314374	453	0.1685626	0	51
	30	9.7493357	310	9.9177623	143	9.8315734	453	0.1684266	30	
10	0	9.7494287	310	9.9177194	143	9.8317093	453	0.1682907	0	50
	30	9.7495218	310	9.9176765	143	9.8318452	453	0.1681548	30	
11	0	9.7496148	310	9.9176336	143	9.8319811	453	0.1680189	0	49
	30	9.7497078	310	9.9175907	143	9.8321170	453	0.1678830	30	
12	0	9.7498007	310	9.9175478	143	9.8322529	453	0.1677471	0	48
	30	9.7498937	309	9.9175049	143	9.8323888	453	0.1676112	30	
13	0	9.7499866	309	9.9174619	143	9.8325246	453	0.1674754	0	47
	30	9.7500794	310	9.9174190	143	9.8326605	452	0.1673395	30	
14	0	9.7501723	309	9.9173760	143	9.8327963	453	0.1672037	0	46
	30	9.7502651	309	9.9173330	143	9.8329321	453	0.1670679	30	
15	0	9.7503579	309	9.9172900	143	9.8330679	452	0.1669321	0	45
	30	9.7504506	310	9.9172470	143	9.8332036	453	0.1667964	30	
16	0	9.7505434	309	9.9172040	144	9.8333394	453	0.1666606	0	44
	30	9.7506361	309	9.9171609	143	9.8334751	453	0.1665249	30	
17	0	9.7507287	309	9.9171179	144	9.8336109	452	0.1663891	0	43
	30	9.7508214	309	9.9170748	144	9.8337466	452	0.1662534	30	
18	0	9.7509140	309	9.9170317	143	9.8338823	452	0.1661177	0	42
	30	9.7510066	308	9.9169886	143	9.8340179	453	0.1659821	30	
19	0	9.7510991	309	9.9169455	144	9.8341536	452	0.1658464	0	41
	30	9.7511917	308	9.9169024	144	9.8342893	452	0.1657107	30	
20	0	9.7512842	308	9.9168593	144	9.8344249	452	0.1655751	0	40
	30	9.7513766	308	9.9168161	144	9.8345605	452	0.1654395	30	
21	0	9.7514691	308	9.9167730	144	9.8346961	452	0.1653039	0	39
	30	9.7515615	308	9.9167298	144	9.8348317	452	0.1651683	30	
22	0	9.7516538	308	9.9166866	144	9.8349673	452	0.1650327	0	38
	30	9.7517462	308	9.9166434	144	9.8351028	452	0.1648972	30	
23	0	9.7518385	308	9.9166002	144	9.8352384	451	0.1647616	0	37
	30	9.7519308	308	9.9165569	144	9.8353739	452	0.1646261	30	
24	0	9.7520231	307	9.9165137	144	9.8355094	452	0.1644906	0	36
	30	9.7521153	308	9.9164704	144	9.8356449	451	0.1643551	30	
25	0	9.7522075	308	9.9164272	145	9.8357804	451	0.1642196	0	35
	30	9.7522997	307	9.9163839	145	9.8359158	452	0.1640842	30	
26	0	9.7523919	307	9.9163406	145	9.8360513	451	0.1639487	0	34
	30	9.7524840	307	9.9162973	145	9.8361867	451	0.1638133	30	
27	0	9.7525761	307	9.9162539	144	9.8363221	452	0.1636779	0	33
	30	9.7526681	307	9.9162106	144	9.8364575	452	0.1635425	30	
28	0	9.7527602	306	9.9161673	145	9.8365929	451	0.1634071	0	32
	30	9.7528522	306	9.9161239	145	9.8367283	451	0.1632717	30	
29	0	9.7529442	306	9.9160805	144	9.8368636	452	0.1631364	0	31
	30	9.7530361	306	9.9160371	144	9.8369990	451	0.1630010	30	
30	0	9.7531280		9.9159937		9.8371343		0.1628657	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7531280	307	9.9159937	145	9.8371343	451	0.1628657	0	30
	30	9.7532197	306	9.9159503	145	9.8372696	451	0.1627304	30	
31	0	9.7533118	306	9.9159069	145	9.8374049	451	0.1625951	0	29
	30	9.7534036	306	9.9158634	145	9.8375402	451	0.1624598	30	
32	0	9.7534954	306	9.9158200	145	9.8376755	451	0.1623245	0	28
	30	9.7535872	306	9.9157765	145	9.8378107	451	0.1621893	30	
33	0	9.7536790	305	9.9157330	145	9.8379460	450	0.1620540	0	27
	30	9.7537707	305	9.9156895	145	9.8380812	450	0.1619188	30	
34	0	9.7538624	305	9.9156460	145	9.8382164	450	0.1617836	0	26
	30	9.7539540	306	9.9156025	146	9.8383516	450	0.1616484	30	
35	0	9.7540457	305	9.9155589	145	9.8384867	451	0.1615133	0	25
	30	9.7541373	305	9.9155154	146	9.8386219	451	0.1613781	30	
36	0	9.7542288	306	9.9154718	145	9.8387571	450	0.1612429	0	24
	30	9.7543204	305	9.9154282	145	9.8388922	450	0.1611078	30	
37	0	9.7544119	305	9.9153846	145	9.8390273	450	0.1609727	0	23
	30	9.7545034	305	9.9153410	145	9.8391624	450	0.1608376	30	
38	0	9.7545949	305	9.9152974	146	9.8392975	450	0.1607025	0	22
	30	9.7546863	305	9.9152537	145	9.8394326	450	0.1605674	30	
39	0	9.7547777	305	9.9152101	146	9.8395676	450	0.1604324	0	21
	30	9.7548691	304	9.9151664	145	9.8397027	450	0.1602973	30	
40	0	9.7549604	305	9.9151228	146	9.8398377	450	0.1601623	0	20
	30	9.7550518	304	9.9150791	146	9.8399727	450	0.1600273	30	
41	0	9.7551431	304	9.9150354	146	9.8401077	450	0.1598923	0	19
	30	9.7552343	304	9.9149916	145	9.8402427	450	0.1597573	03	
42	0	9.7553256	304	9.9149479	146	9.8403776	450	0.1596224	0	18
	30	9.7554168	304	9.9149042	146	9.8405126	450	0.1594874	30	
43	0	9.7555080	303	9.9148604	146	9.8406475	450	0.1593625	0	17
	30	9.7555991	304	9.9148166	146	9.8407825	449	0.1592175	30	
44	0	9.7556902	304	9.9147729	146	9.8409174	449	0.1590826	0	16
	30	9.7557813	304	9.9147291	146	9.8410523	449	0.1589477	30	
45	0	9.7558724	303	9.9146852	146	9.8411871	450	0.1588129	0	15
	30	9.7559634	304	9.9146414	146	9.8413220	450	0.1586780	30	
46	0	9.7560544	304	9.9145976	146	9.8414569	449	0.1585431	0	14
	30	9.7561454	303	9.9145537	146	9.8415917	449	0.1584083	30	
47	0	9.7562364	303	9.9145099	147	9.8417265	450	0.1582735	0	13
	30	9.7563273	303	9.9144660	147	9.8418613	450	0.1581387	30	
48	0	9.7564182	303	9.9144221	147	9.8419961	449	0.1580039	0	12
	30	9.7565091	302	9.9143782	147	9.8421309	449	0.1578691	30	
49	0	9.7565999	303	9.9143342	146	9.8422657	449	0.1577343	0	11
	30	9.7566907	303	9.9142903	146	9.8424004	449	0.1575996	30	
50	0	9.7567815	303	9.9142464	147	9.8425351	449	0.1574649	0	10
	30	9.7568723	302	9.9142024	147	9.8426699	449	0.1573301	30	
51	0	9.7569630	302	9.9141584	146	9.8428046	449	0.1571954	0	9
	30	9.7570537	302	9.9141144	146	9.8429393	448	0.1570607	30	
52	0	9.7571444	302	9.9140704	146	9.8430739	449	0.1569261	0	8
	30	9.7572350	302	9.9140254	147	9.8432086	449	0.1567914	30	
53	0	9.7573256	302	9.9139824	147	9.8433432	449	0.1566568	0	7
	30	9.7574162	302	9.9139383	146	9.8434779	448	0.1565221	30	
54	0	9.7575068	302	9.9138943	147	9.8436125	449	0.1563875	0	6
	30	9.7575973	302	9.9138502	147	9.8437471	449	0.1562529	30	
55	0	9.7576878	302	9.9138061	147	9.8438817	448	0.1561183	0	5
	30	9.7577783	301	9.9137620	147	9.8440163	448	0.1559837	30	
56	0	9.7578687	302	9.9137179	147	9.8441508	449	0.1558492	0	4
	30	9.7579591	302	9.9136738	147	9.8442854	448	0.1557146	30	
57	0	9.7580495	302	9.9136296	147	9.8444199	448	0.1556801	0	3
	30	9.7581399	301	9.9135855	147	9.8445544	448	0.1554456	30	
58	0	9.7582302	301	9.9135413	147	9.8446889	448	0.1553111	0	2
	30	9.7583205	301	9.9134971	147	9.8448234	448	0.1551765	30	
59	0	9.7584108	301	9.9134530	148	9.8449579	448	0.1550421	0	1
	30	9.7585011	301	9.9134087	147	9.8450923	449	0.1549077	30	
60	0	9.7585913		9.9133645		9.8452268		0.1547732	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
0	0	9.7585913	301	9.9133645	147	9.8452268	448	0.1547732	0	60
	30	9.7586315	301	9.9133203	148	9.8453612	448	0.1546388	30	
1	0	9.7587717	300	9.9132760	147	9.8454956	448	0.1545044	0	59
	30	9.7588618	300	9.9132318	148	9.8456300	448	0.1543700	30	
2	0	9.7589519	300	9.9131875	148	9.8457644	448	0.1542356	0	58
	30	9.7590420	300	9.9131432	148	9.8458988	448	0.1541012	30	
3	0	9.7591321	300	9.9130989	148	9.8460332	447	0.1539668	0	57
	30	9.7592221	300	9.9130546	148	9.8461675	448	0.1538325	30	
4	0	9.7593121	300	9.9130102	147	9.8463018	448	0.1536982	0	56
	30	9.7594021	299	9.9129659	148	9.8464362	447	0.1535638	30	
5	0	9.7594920	300	9.9129215	147	9.8465705	447	0.1534295	0	55
	30	9.7595819	300	9.9128772	148	9.8467048	447	0.1532952	30	
6	0	9.7596718	300	9.9128328	148	9.8468390	448	0.1531610	0	54
	30	9.7597617	299	9.9127884	148	9.8469733	447	0.1530267	30	
7	0	9.7598515	299	9.9127440	148	9.8471075	448	0.1528925	0	53
	30	9.7599413	299	9.9126995	148	9.8472418	447	0.1527582	30	
8	0	9.7600311	299	9.9126551	148	9.8473760	447	0.1526240	0	52
	30	9.7601208	300	9.9126106	148	9.8475102	447	0.1524898	30	
9	0	9.7602106	299	9.9125662	148	9.8476444	447	0.1523556	0	51
	30	9.7603003	299	9.9125217	148	9.8477786	447	0.1522214	30	
10	0	9.7603899	299	9.9124772	148	9.8479127	447	0.1520873	0	50
	30	9.7604796	298	9.9124327	149	9.8480469	447	0.1519531	30	
11	0	9.7605692	298	9.9123882	149	9.8481810	447	0.1518190	0	49
	30	9.7606588	298	9.9123436	148	9.8483151	447	0.1516849	30	
12	0	9.7607483	299	9.9122991	149	9.8484492	447	0.1515508	0	48
	30	9.7608378	299	9.9122545	148	9.8485833	447	0.1514167	30	
13	0	9.7609274	298	9.9122099	148	9.8487174	447	0.1512826	0	47
	30	9.7610168	298	9.9121653	148	9.8488515	447	0.1511485	30	
14	0	9.7611063	298	9.9121207	148	9.8489855	447	0.1510145	0	46
	30	9.7611957	298	9.9120761	149	9.8491196	447	0.1508804	30	
15	0	9.7612851	298	9.9120315	149	9.8492536	447	0.1507464	0	45
	30	9.7613744	298	9.9119868	149	9.8493876	447	0.1506124	30	
16	0	9.7614638	298	9.9119422	149	9.8495216	447	0.1504784	0	44
	30	9.7615531	298	9.9118975	149	9.8496556	447	0.1503444	30	
17	0	9.7616424	297	9.9118528	149	9.8497896	446	0.1502104	0	43
	30	9.7617316	298	9.9118081	149	9.8499235	447	0.1500765	30	
18	0	9.7618208	298	9.9117634	149	9.8500575	446	0.1499425	0	42
	30	9.7619100	298	9.9117187	150	9.8501914	446	0.1498086	30	
19	0	9.7619992	297	9.9116739	149	9.8503253	446	0.1496747	0	41
	30	9.7620884	297	9.9116291	149	9.8504592	446	0.1495408	30	
20	0	9.7621775	297	9.9115844	150	9.8505931	446	0.1494069	0	40
	30	9.7622666	297	9.9115395	149	9.8507270	446	0.1492730	30	
21	0	9.7623556	297	9.9114948	149	9.8508608	447	0.1491392	0	39
	30	9.7624447	296	9.9114500	150	9.8509947	446	0.1490053	30	
22	0	9.7625337	296	9.9114051	149	9.8511285	446	0.1488715	0	38
	30	9.7626226	297	9.9113603	149	9.8512623	446	0.1487377	30	
23	0	9.7627116	296	9.9113155	150	9.8513961	446	0.1486039	0	37
	30	9.7628005	297	9.9112706	150	9.8515299	446	0.1484701	30	
24	0	9.7628894	296	9.9112257	150	9.8516637	446	0.1483363	0	36
	30	9.7629783	296	9.9111808	150	9.8517975	446	0.1482025	30	
25	0	9.7630671	296	9.9111359	150	9.8519312	446	0.1480688	0	35
	30	9.7631559	296	9.9110910	150	9.8520650	445	0.1479350	30	
26	0	9.7632447	296	9.9110460	149	9.8521987	446	0.1478013	0	34
	30	9.7633335	296	9.9110011	150	9.8523324	446	0.1476676	30	
27	0	9.7634222	296	9.9109561	150	9.8524661	446	0.1475339	0	33
	30	9.7635109	296	9.9109111	150	9.8525998	445	0.1474002	30	
28	0	9.7635996	296	9.9108661	150	9.8527335	445	0.1472665	0	32
	30	9.7636882	296	9.9108211	150	9.8528671	446	0.1471329	30	
29	0	9.7637769	295	9.9107761	150	9.8530008	445	0.1469992	0	31
	30	9.7638655	295	9.9107311	150	9.8531344	445	0.1468656	30	
30	0	9.7639540	10″ dif.	9.9106860	10″ d.	9.8532680	10″ dif.	0.1467320	0	30
′	″	l. cosin.		l. sin.		l. cotan.		l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7639540	296	9.9106860	150	9.8532680	445	0.1467320	0	30
	30	9.7640426	295	9.9106410	151	9.8534016	445	0.1465984	30	
31	0	9.7641311	295	9.9105959	150	9.8535352	445	0.1464648	0	29
	30	9.7642196	295	9.9105508	150	9.8536688	445	0.1463312	30	
32	0	9.7643080	295	9.9105057	150	9.8538023	446	0.1461977	0	28
	30	9.7643965	294	9.9104606	151	9.8539359	445	0.1460641	30	
33	0	9.7644849	294	9.9104155	151	9.8540694	445	0.1459306	0	27
	30	9.7645733	294	9.9103703	150	9.8542029	446	0.1457971	30	
34	0	9.7646616	294	9.9103251	150	9.8543365	445	0.1456635	0	26
	30	9.7647499	295	9.9102800	151	9.8544700	445	0.1455300	30	
35	0	9.7648382	295	9.9102348	151	9.8546034	445	0.1453966	0	25
	30	9.7649265	294	9.9101896	151	9.8547369	445	0.1452631	30	
36	0	9.7650147	294	9.9101444	151	9.8548704	445	0.1451296	0	24
	30	9.7651030	294	9.9100991	150	9.8550038	445	0.1449962	30	
37	0	9.7651911	294	9.9100539	151	9.8551372	445	0.1448628	0	23
	30	9.7652793	294	9.9100086	151	9.8552707	444	0.1447293	30	
38	0	9.7653674	294	9.9099634	151	9.8554041	444	0.1445959	0	22
	30	9.7654555	294	9.9099181	151	9.8555375	444	0.1444625	30	
39	0	9.7655436	294	9.9098728	151	9.8556708	445	0.1443292	0	21
	30	9.7656317	293	9.9098275	151	9.8558042	445	0.1441958	30	
40	0	9.7657197	293	9.9097821	151	9.8559376	444	0.1440624	0	20
	30	9.7658077	293	9.9097368	151	9.8560709	444	0.1439291	30	
41	0	9.7658957	293	9.9096915	152	9.8562042	444	0.1437958	0	19
	30	9.7659836	293	9.9096461	151	9.8563375	445	0.1436625	30	
42	0	9.7660715	293	9.9096007	151	9.8564708	445	0.1435292	0	18
	30	9.7661594	293	9.9095553	151	9.8566041	444	0.1433959	30	
43	0	9.7662472	293	9.9095099	151	9.8567374	444	0.1432626	0	17
	30	9.7663351	293	9.9094645	152	9.8568707	444	0.1431293	30	
44	0	9.7664229	293	9.9094190	151	9.8570039	444	0.1429961	0	16
	30	9.7665107	293	9.9093736	152	9.8571371	444	0.1428629	30	
45	0	9.7665985	292	9.9093281	151	9.8572704	444	0.1427296	0	15
	30	9.7666862	292	9.9092826	151	9.8574036	444	0.1425964	30	
46	0	9.7667739	292	9.9092371	151	9.8575368	444	0.1424632	0	14
	30	9.7668616	292	9.9091916	151	9.8576699	444	0.1423301	30	
47	0	9.7669492	292	9.9091461	152	9.8578031	444	0.1421969	0	13
	30	9.7670368	293	9.9091006	152	9.8579363	444	0.1420637	30	
48	0	9.7671244	292	9.9090550	152	9.8580694	444	0.1419306	0	12
	30	9.7672120	292	9.9090095	152	9.8582025	444	0.1417975	30	
49	0	9.7672996	291	9.9089639	152	9.8583357	443	0.1416643	0	11
	30	9.7673871	291	9.9089183	152	9.8584688	443	0.1415312	30	
50	0	9.7674746	291	9.9088727	152	9.8586019	443	0.1413981	0	10
	30	9.7675620	292	9.9088271	152	9.8587349	444	0.1412651	30	
51	0	9.7676494	292	9.9087814	152	9.8588680	444	0.1411320	0	9
	30	9.7677369	291	9.9087358	152	9.8590011	443	0.1409989	30	
52	0	9.7678242	292	9.9086901	152	9.8591341	443	0.1408659	0	8
	30	9.7679116	291	9.9086445	153	9.8592671	444	0.1407329	30	
53	0	9.7679989	291	9.9085988	153	9.8594002	443	0.1405998	0	7
	30	9.7680862	291	9.9085531	153	9.8595332	443	0.1404668	30	
54	0	9.7681735	291	9.9085073	152	9.8596661	444	0.1403339	0	6
	30	9.7682607	291	9.9084616	152	9.8597991	443	0.1402009	30	
55	0	9.7683480	290	9.9084159	153	9.8599321	443	0.1400679	0	5
	30	9.7684351	291	9.9083701	152	9.8600650	444	0.1399350	30	
56	0	9.7685223	291	9.9083243	152	9.8601980	443	0.1398020	0	4
	30	9.7686093	290	9.9082785	152	9.8603309	443	0.1396691	30	
57	0	9.7686965	290	9.9082327	152	9.8604638	443	0.1395362	0	3
	30	9.7687837	290	9.9081869	152	9.8605967	443	0.1394033	30	
58	0	9.7688707	290	9.9081411	153	9.8607296	443	0.1392704	0	2
	30	9.7689577	291	9.9080953	153	9.8608625	443	0.1391375	30	
59	0	9.7690448	289	9.9080494	153	9.8609954	442	0.1390046	0	1
	30	9.7691317	290	9.9080035	153	9.8611282	443	0.1388718	30	
60	0	9.7692187		9.9079576		9.8612610		0.1387390	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

″	′	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	′	″
0	0	9.7692187	290	9.9079576	153	9.8612610	443	0.1387390	0	60
	30	9.7693056	290	9.9079117	153	9.8613939	442	0.1386061	30	
1	0	9.7693926	290	9.9078658	153	9.8615267	442	0.1384733	0	59
	30	9.7694794	289	9.9078199	153	9.8616595	442	0.1383405	30	
2	0	9.7695662	290	9.9077740	154	9.8617923	442	0.1382077	0	58
	30	9.7696531	289	9.9077280	153	9.8619250	443	0.1380750	30	
3	0	9.7697398	290	9.9076820	153	9.8620578	443	0.1379422	0	57
	30	9.7698266	289	9.9076361	154	9.8621906	442	0.1378094	30	
4	0	9.7699134	289	9.9075901	154	9.8623233	442	0.1376767	0	56
	30	9.7700001	289	9.9075440	153	9.8624560	443	0.1375440	30	
5	0	9.7700868	288	9.9074980	153	9.8625887	443	0.1374113	0	55
	30	9.7701734	289	9.9074520	154	9.8627214	443	0.1372786	30	
6	0	9.7702601	288	9.9074059	153	9.8628541	443	0.1371459	0	54
	30	9.7703467	288	9.9073599	154	9.8629868	442	0.1370132	30	
7	0	9.7704332	289	9.9073138	154	9.8631195	442	0.1368805	0	53
	30	9.7705198	288	9.9072677	154	9.8632521	442	0.1367479	30	
8	0	9.7706063	289	9.9072216	154	9.8633848	442	0.1366152	0	52
	30	9.7706928	289	9.9071754	153	9.8635174	442	0.1364826	30	
9	0	9.7707793	288	9.9071293	154	9.8636500	442	0.1363500	0	51
	30	9.7708658	288	9.9070832	154	9.8637826	442	0.1362174	30	
10	0	9.7709522	288	9.9070370	154	9.8639152	442	0.1360848	0	50
	30	9.7710386	288	9.9069908	154	9.8640478	442	0.1359522	30	
11	0	9.7711249	288	9.9069446	154	9.8641803	442	0.1358197	0	49
	30	9.7712113	288	9.9068984	154	9.8643129	442	0.1356871	30	
12	0	9.7712976	288	9.9068522	154	9.8644454	442	0.1355546	0	48
	30	9.7713839	288	9.9068059	154	9.8645780	441	0.1354220	30	
13	0	9.7714702	287	9.9067597	154	9.8647105	441	0.1352895	0	47
	30	9.7715564	287	9.9067134	154	9.8648430	441	0.1351570	30	
14	0	9.7716426	288	9.9066671	154	9.8649755	441	0.1350245	0	46
	30	9.7717288	287	9.9066208	154	9.8651080	441	0.1348920	30	
15	0	9.7718150	287	9.9065745	154	9.8652404	442	0.1347596	0	45
	30	9.7719011	287	9.9065282	154	9.8653729	441	0.1346271	30	
16	0	9.7719872	287	9.9064819	155	9.8655053	442	0.1344947	0	44
	30	9.7720733	287	9.9064355	154	9.8656378	441	0.1343622	30	
17	0	9.7721593	287	9.9063892	155	9.8657702	441	0.1342298	0	43
	30	9.7722454	286	9.9063428	155	9.8659026	441	0.1340974	30	
18	0	9.7723314	286	9.9062964	155	9.8660350	441	0.1339650	0	42
	30	9.7724174	286	9.9062500	155	9.8661674	441	0.1338326	30	
19	0	9.7725033	286	9.9062036	155	9.8662997	442	0.1337003	0	41
	30	9.7725892	287	9.9061571	154	9.8664321	441	0.1335679	30	
20	0	9.7726751	286	9.9061107	155	9.8665644	442	0.1334356	0	40
	30	9.7727610	286	9.9060642	155	9.8666968	441	0.1333032	30	
21	0	9.7728468	286	9.9060177	155	9.8668291	441	0.1331709	0	39
	30	9.7729327	286	9.9059713	155	9.8669614	441	0.1330386	30	
22	0	9.7730185	285	9.9059247	155	9.8670937	441	0.1329063	0	38
	30	9.7731042	286	9.9058782	155	9.8672260	441	0.1327740	30	
23	0	9.7731900	285	9.9058317	155	9.8673583	441	0.1326417	0	37
	30	9.7732757	285	9.9057851	155	9.8674905	441	0.1325095	30	
24	0	9.7733614	285	9.9057386	155	9.8676228	441	0.1323772	0	36
	30	9.7734470	286	9.9056920	155	9.8677550	441	0.1322450	30	
25	0	9.7735327	285	9.9056454	155	9.8678873	440	0.1321127	0	35
	30	9.7736183	285	9.9055988	155	9.8680195	440	0.1319805	30	
26	0	9.7737039	285	9.9055522	156	9.8681517	440	0.1318483	0	34
	30	9.7737894	285	9.9055056	156	9.8682839	440	0.1317161	30	
27	0	9.7738749	286	9.9054589	155	9.8684160	441	0.1315840	0	33
	30	9.7739605	285	9.9054122	155	9.8685482	441	0.1314518	30	
28	0	9.7740459	285	9.9053656	156	9.8686804	440	0.1313196	0	32
	30	9.7741314	285	9.9053189	156	9.8688125	441	0.1311875	30	
29	0	9.7742168	285	9.9052722	156	9.8689446	441	0.1310554	0	31
	30	9.7743022	285	9.9052255	156	9.8690768	440	0.1309232	30	
30	0	9.7743876		9.9051787		9.8692089		0.1307911	0	30
″	′	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7743876	285	9.9051787	156	9.8692089	440	0.1307911	0	30
	30	9.7744729	285	9.9051320	156	9.8693410	440	0.1306590	30	
31	0	9.7745583	284	9.9050852	156	9.8694731	440	0.1305269	0	29
	30	9.7746436	284	9.9050384	156	9.8696051	441	0.1303949	30	
32	0	9.7747288	285	9.9049916	156	9.8697372	440	0.1302628	0	28
	30	9.7748141	284	9.9049448	156	9.8698692	441	0.1301308	30	
33	0	9.7748993	284	9.9048980	156	9.8700013	440	0.1299987	0	27
	30	9.7749845	284	9.9048512	156	9.8701333	440	0.1298667	30	
34	0	9.7750697	284	9.9048043	156	9.8702653	440	0.1297347	0	26
	30	9.7751548	284	9.9047575	156	9.8703973	440	0.1296027	30	
35	0	9.7752399	284	9.9047106	156	9.8705293	440	0.1294707	0	25
	30	9.7753250	284	9.9046637	156	9.8706613	440	0.1293387	30	
36	0	9.7754101	283	9.9046168	156	9.8707933	440	0.1292067	0	24
	30	9.7754951	284	9.9045699	156	9.8709252	440	0.1290748	30	
37	0	9.7755801	284	9.9045230	157	9.8710572	440	0.1289428	0	23
	30	9.7756651	284	9.9044760	156	9.8711891	440	0.1288109	30	
38	0	9.7757501	283	9.9044291	157	9.8713210	440	0.1286790	0	22
	30	9.7758350	283	9.9043821	157	9.8714529	440	0.1285471	30	
39	0	9.7759199	283	9.9043351	157	9.8715848	440	0.1284152	0	21
	30	9.7760048	283	9.9042881	157	9.8717167	440	0.1282833	30	
40	0	9.7760897	283	9.9042411	157	9.8718486	440	0.1281514	0	20
	30	9.7761745	283	9.9041940	156	9.8719805	439	0.1280195	30	
41	0	9.7762593	283	9.9041470	157	9.8721123	440	0.1278877	0	19
	30	9.7763441	283	9.9040999	157	9.8722442	439	0.1277558	30	
42	0	9.7764289	282	9.9040529	157	9.8723760	439	0.1276240	0	18
	30	9.7765136	282	9.9040058	157	9.8725078	440	0.1274922	30	
43	0	9.7765983	282	9.9039587	157	9.8726396	440	0.1273604	0	17
	30	9.7766830	282	9.9039116	157	9.8727714	440	0.1272286	30	
44	0	9.7767676	282	9.9038644	157	9.8729032	439	0.1270968	0	16
	30	9.7768523	282	9.9038173	157	9.8730350	439	0.1269650	30	
45	0	9.7769369	282	9.9037701	157	9.8731668	439	0.1268332	0	15
	30	9.7770214	282	9.9037229	157	9.8732985	439	0.1267015	30	
46	0	9.7771060	282	9.9036757	157	9.8734302	440	0.1265698	0	14
	30	9.7771905	282	9.9036285	157	9.8735620	439	0.1264380	30	
47	0	9.7772750	282	9.9035813	157	9.8736937	439	0.1263063	0	13
	30	9.7773595	281	9.9035341	158	9.8738254	439	0.1261746	30	
48	0	9.7774439	282	9.9034868	157	9.8739571	439	0.1260429	0	12
	30	9.7779284	281	9.9034396	158	9.8740888	439	0.1259112	30	
49	0	9.7776128	281	9.9033923	158	9.8742204	439	0.1257796	0	11
	30	9.7776971	281	9.9033450	157	9.8743521	439	0.1256479	30	
50	0	9.7777815	281	9.9032977	158	9.8744838	438	0.1255162	0	10
	30	9.7778658	281	9.9032504	158	9.8746154	439	0.1253846	30	
51	0	9.7779501	281	9.9032031	158	9.8747470	439	0.1252530	0	9
	30	9.7780344	280	9.9031557	158	9.8748786	439	0.1251214	30	
52	0	9.7781186	281	9.9031084	158	9.8750102	439	0.1249898	0	8
	30	9.7782028	281	9.9030610	158	9.8751418	439	0.1248582	30	
53	0	9.7782870	281	9.9030136	158	9.8752734	439	0.1247266	0	7
	30	9.7783712	280	9.9029662	158	9.8754050	438	0.1245950	30	
54	0	9.7784553	281	9.9029188	158	9.8755365	439	0.1244635	0	6
	30	9.7785394	281	9.9028713	158	9.8756681	438	0.1243319	30	
55	0	9.7786235	280	9.9028239	158	9.8757996	439	0.1242004	0	5
	30	9.7787075	280	9.9027764	158	9.8759312	438	0.1240688	30	
56	0	9.7787916	280	9.9027289	158	9.8760627	438	0.1239373	0	4
	30	9.7788756	280	9.9026815	159	9.8761942	438	0.1238058	30	
57	0	9.7789596	280	9.9026339	158	9.8763257	438	0.1236743	0	3
	30	9.7790436	280	9.9025864	158	9.8764572	438	0.1235428	30	
58	0	9.7791275	280	9.9025389	159	9.8765886	439	0.1234114	0	2
	30	9.7792114	280	9.9024913	158	9.8767201	438	0.1232799	30	
59	0	9.7792953	280	9.9024438	159	9.8768515	439	0.1231485	0	1
	30	9.7793792	279	9.9023962	159	9.8769830	438	0.1230170	30	
60	0	9.7794630		9.9023486		9.8771144		0.1228856	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	dif. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7794630	280	9.9023486	159	9.8771144	438	0.1228856	0	60
	30	9.7795468	280	9.9023010	159	9.8772458	438	0.1227542	30	
1	0	9.7796306	279	9.9022534	159	9.8773772	438	0.1226228	0	59
	30	9.7797144	279	9.9022058	159	9.8775086	438	0.1224914	30	
2	0	9.7797981	279	9.9021581	159	9.8776400	438	0.1223600	0	58
	30	9.7798818	279	9.9021104	158	9.8777714	438	0.1222286	30	
3	0	9.7799655	279	9.9020628	159	9.8779027	438	0.1220973	0	57
	30	9.7800492	278	9.9020151	159	9.8780341	438	0.1219659	30	
4	0	9.7801328	279	9.9019674	159	9.8781654	438	0.1218346	0	56
	30	9.7802164	279	9.9019196	159	9.8782968	437	0.1217032	30	
5	0	9.7803000	278	9.9018719	159	9.8784281	438	0.1215719	0	55
	30	9.7803836	278	9.9018242	160	9.8785594	438	0.1214406	30	
6	0	9.7804671	278	9.9017764	159	9.8786907	438	0.1213093	0	54
	30	9.7805506	278	9.9017286	159	9.8788220	437	0.1211780	30	
7	0	9.7806341	278	9.9016808	159	9.8789533	437	0.1210467	0	53
	30	9.7807175	278	9.9016330	159	9.8790845	438	0.1209155	30	
8	0	9.7808010	278	9.9015852	160	9.8792158	437	0.1207842	0	52
	30	9.7808844	278	9.9015374	160	9.8793470	438	0.1206530	30	
9	0	9.7809677	278	9.9014895	159	9.8794782	438	0.1205218	0	51
	30	9.7810511	278	9.9014416	159	9.8796095	437	0.1203905	30	
10	0	9.7811344	278	9.9013938	160	9.8797407	437	0.1202593	0	50
	30	9.7812177	278	9.9013459	160	9.8798719	437	0.1201281	30	
11	0	9.7813010	278	9.9012980	160	9.8800031	437	0.1199969	0	49
	30	9.7813843	277	9.9012500	159	9.8801342	438	0.1198658	30	
12	0	9.7814675	277	9.9012021	160	9.8802654	437	0.1197346	0	48
	30	9.7815507	277	9.9011541	159	9.8803966	437	0.1196034	30	
13	0	9.7816339	277	9.9011062	160	9.8805277	437	0.1194723	0	47
	30	9.7817170	278	9.9010582	160	9.8806589	437	0.1193411	30	
14	0	9.7818002	277	9.9010102	160	9.8807900	437	0.1192100	0	46
	30	9.7818833	277	9.9009622	160	9.8809211	437	0.1190789	30	
15	0	9.7819664	276	9.9009142	161	9.8810522	437	0.1189478	0	45
	30	9.7820494	277	9.9008661	160	9.8811833	437	0.1188167	30	
16	0	9.7821324	277	9.9008181	161	9.8813144	437	0.1186856	0	44
	30	9.7822154	277	9.9007700	160	9.8814455	436	0.1185545	30	
17	0	9.7822984	277	9.9007219	160	9.8815765	437	0.1184235	0	43
	30	9.7823814	276	9.9006738	160	9.8817076	436	0.1182924	30	
18	0	9.7824643	276	9.9006257	160	9.8818386	437	0.1181614	0	42
	30	9.7825472	276	9.9005776	161	9.8819696	437	0.1180304	30	
19	0	9.7826301	276	9.9005294	160	9.8821007	436	0.1178993	0	41
	30	9.7827129	277	9.9004813	161	9.8822317	436	0.1177683	30	
20	0	9.7827958	276	9.9004331	160	9.8823627	436	0.1176373	0	40
	30	9.7828786	276	9.9003849	160	9.8824937	436	0.1175063	30	
21	0	9.7829614	275	9.9003367	160	9.8826246	437	0.1173754	0	39
	30	9.7830441	276	9.9002885	161	9.8827556	437	0.1172444	30	
22	0	9.7831268	276	9.9002403	161	9.8828866	436	0.1171134	0	38
	30	9.7832095	276	9.9001920	160	9.8830175	437	0.1169825	30	
23	0	9.7832922	276	9.9001438	161	9.8831484	437	0.1168516	0	37
	30	9.7833749	275	9.9000955	161	9.8832794	436	0.1167206	30	
24	0	9.7834575	276	9.9000472	161	9.8834103	436	0.1165897	0	36
	30	9.7835401	275	8.9999989	161	9.8835412	436	0.1164588	30	
25	0	9.7836227	275	8.9999506	161	9.8836721	436	0.1163279	0	35
	30	9.7837053	275	8.9999023	161	9.8838030	436	0.1161970	30	
26	0	9.7837878	275	8.9998539	161	9.8839338	437	0.1160662	0	34
	30	9.7838703	275	8.9998056	161	9.8840647	436	0.1159353	30	
27	0	9.7839528	275	8.9997572	161	9.8841956	436	0.1158044	0	33
	30	9.7840352	275	8.9997088	161	9.8843264	436	0.1156736	30	
28	0	9.7841177	274	8.9996604	161	9.8844572	436	0.1155428	0	32
	30	9.7842001	274	8.9996120	161	9.8845881	436	0.1154119	30	
29	0	9.7842824	275	8.9995636	162	9.8847189	436	0.1152811	0	31
	30	9.7843648	274	8.9995151	161	9.8848497	436	0.1151503	30	
30	0	9.7844471		8.9994667		9.8849805		0.1150195	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ dif.	l. cotan.	10″ dif.	l. tang.	″	′

37 deg.

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
30	0	9.7844471	275	9.8994667	162	9.8849805	436	0.1150195	0	30
	30	9.7845294	275	9.8994182	162	9.8851113	435	0.1148887	30	
31	0	9.7846117	274	9.8993697	162	9.8852420	436	0.1147580	0	29
	30	9.7846940	274	9.8993212	162	9.8853728	436	0.1146272	30	
32	0	9.7847762	274	9.8992727	162	9.8855035	436	0.1144965	0	28
	30	9.7848584	274	9.8992241	162	9.8856343	436	0.1143657	30	
33	0	9.7849406	274	9.8991756	162	9.8857650	436	0.1142350	0	27
	30	9.7850228	273	9.8991270	162	9.8858957	436	0.1141043	30	
34	0	9.7851049	274	9.8990784	162	9.8860264	436	0.1139736	0	26
	30	9.7851870	274	9.8990298	162	9.8861572	436	0.1138428	30	
35	0	9.7852691	273	9.8989812	162	9.8862878	436	0.1137122	0	25
	30	9.7853511	274	9.8989326	162	9.8864185	436	0.1135815	30	
36	0	9.7854332	273	9.8988840	162	9.8865492	435	0.1134508	0	24
	30	9.7855152	273	9.8988353	162	9.8866799	435	0.1133201	30	
37	0	9.7855972	273	9.8987867	163	9.8868105	436	0.1131895	0	23
	30	9.7856791	273	9.8987380	162	9.8869411	436	0.1130589	30	
38	0	9.7857611	273	9.8986893	162	9.8870718	435	0.1129282	0	22
	30	9.7858430	273	9.8986406	163	9.8872024	435	0.1127976	30	
39	0	9.7859249	273	9.8985919	163	9.8873330	435	0.1126670	0	21
	30	9.7860067	273	9.8985431	162	9.8874636	435	0.1125364	30	
40	0	9.7860886	272	9.8984944	163	9.8875942	435	0.1124058	0	20
	30	9.7861704	272	9.8984456	163	9.8877248	436	0.1122752	30	
41	0	9.7862522	272	9.8983968	163	9.8878554	435	0.1121446	0	19
	30	9.7863339	273	9.8983480	163	9.8879859	435	0.1120141	30	
42	0	9.7864157	272	9.8982992	163	9.8881165	435	0.1118835	0	18
	30	9.7864974	272	9.8982504	163	9.8882470	435	0.1117530	30	
43	0	9.7865791	272	9.8982015	163	9.8883775	436	0.1116225	0	17
	30	9.7866607	273	9.8981527	163	9.8885081	435	0.1114919	30	
44	0	9.7867424	272	9.8981038	163	9.8886386	435	0.1113614	0	16
	30	9.7868240	272	9.8980549	163	9.8887691	435	0.1112309	30	
45	0	9.7869056	272	9.8980060	163	9.8888996	435	0.1111004	0	15
	30	9.7869872	271	9.8979571	163	9.8890301	434	0.1109699	30	
46	0	9.7870687	272	9.8979082	163	9.8891605	435	0.1108395	0	14
	30	9.7871502	272	9.8978592	163	9.8892910	435	0.1107090	30	
47	0	9.7872317	272	9.8978103	164	9.8894214	435	0.1105786	0	13
	30	9.7873132	271	9.8977613	163	9.8895519	435	0.1104481	30	
48	0	9.7873946	272	9.8977123	163	9.8896823	435	0.1103177	0	12
	30	9.7874760	272	9.8976633	163	9.8898127	435	0.1101873	30	
49	0	9.7875574	272	9.8976143	164	9.8899432	434	0.1100568	0	11
	30	9.7876388	271	9.8975652	163	9.8900736	434	0.1099264	30	
50	0	9.7877202	271	9.8975162	164	9.8902040	434	0.1097960	0	10
	30	9.7878015	271	9.8974671	163	9.8903343	435	0.1096657	30	
51	0	9.7878828	271	9.8974181	164	9.8904647	435	0.1095353	0	9
	30	9.7879640	271	9.8973690	164	9.8905951	434	0.1094049	30	
52	0	9.7880453	271	9.8973199	164	9.8907254	435	0.1092746	0	8
	30	9.7881265	271	9.8972707	163	9.8908558	434	0.1091442	30	
53	0	9.7882077	271	9.8972216	164	9.8909861	435	0.1090139	0	7
	30	9.7882889	271	9.8971724	163	9.8911165	434	0.1088835	30	
54	0	9.7883701	270	9.8971233	164	9.8912468	434	0.1087532	0	6
	30	9.7884512	270	9.8970741	164	9.8913771	434	0.1086229	30	
55	0	9.7885323	270	9.8970249	164	9.8915074	434	0.1084926	0	5
	30	9.7886134	270	9.8969757	164	9.8916377	434	0.1083623	30	
56	0	9.7886944	270	9.8969265	164	9.8917679	435	0.1082321	0	4
	30	9.7887754	271	9.8968772	164	9.8918982	434	0.1081018	30	
57	0	9.7888565	269	9.8968280	164	9.8920285	434	0.1079715	0	3
	30	9.7889374	270	9.8967787	164	9.8921587	434	0.1078413	30	
58	0	9.7890184	270	9.8967294	164	9.8922890	434	0.1077110	0	2
	30	9.7890993	270	9.8966801	164	9.8924192	434	0.1075808	30	
59	0	9.7891802	270	9.8966308	164	9.8925494	434	0.1074506	0	1
	30	9.7892611	270	9.8965815	165	9.8926796	434	0.1073204	30	
60	0	9.7893420		9.8965321		9.8928098		0.1071902	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

52 deg.

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7893420	269	9.8663321	164	9.8928098	434	0.1071902	0	60
	30	9.7894228	270	9.8664828	165	9.8929400	434	0.1070600	30	
1	0	9.7895036	270	9.8664334	164	9.8930702	434	0.1069298	0	59
	30	9.7895844	269	9.8663840	164	9.8932004	434	0.1067996	30	
2	0	9.7896652	269	9.8663346	164	9.8933306	433	0.1066694	0	58
	30	9.7897459	269	9.8662852	165	9.8934607	434	0.1065393	30	
3	0	9.7898266	269	9.8662358	165	9.8935909	433	0.1064091	0	57
	30	9.7899073	269	9.8661863	165	9.8937210	434	0.1062790	30	
4	0	9.7899880	269	9.8661369	165	9.8938511	434	0.1061489	0	56
	30	9.7900686	269	9.8660874	165	9.8939812	434	0.1060188	30	
5	0	9.7901493	268	9.8660379	165	9.8941114	433	0.1058886	0	55
	30	9.7902298	269	9.8659884	165	9.8942415	433	0.1057585	30	
6	0	9.7903104	269	9.8659389	165	9.8943715	434	0.1056285	0	54
	30	9.7903910	268	9.8658893	165	9.8945016	434	0.1054984	30	
7	0	9.7904715	268	9.8658398	165	9.8946317	434	0.1053683	0	53
	30	9.7905520	268	9.8657902	165	9.8947618	433	0.1052382	30	
8	0	9.7906325	268	9.8657406	165	9.8948918	434	0.1051082	0	52
	30	9.7907129	268	9.8656910	165	9.8950219	433	0.1049781	30	
9	0	9.7907933	268	9.8656414	165	9.8951519	433	0.1048481	0	51
	30	9.7908737	268	9.8655918	165	9.8952819	434	0.1047181	30	
10	0	9.7909541	268	9.8655422	166	9.8954119	434	0.1045881	0	50
	30	9.7910345	267	9.8654925	165	9.8955419	434	0.1044581	30	
11	0	9.7911148	268	9.8654429	166	9.8956719	434	0.1043281	0	49
	30	9.7911951	268	9.8653932	166	9.8958019	434	0.1041981	30	
12	0	9.7912754	267	9.8653435	166	9.8959319	433	0.1040681	0	48
	30	9.7913556	268	9.8652938	166	9.8960619	433	0.1039381	30	
13	0	9.7914359	267	9.8652440	166	9.8961918	434	0.1038082	0	47
	30	9.7915161	267	9.8651943	166	9.8963218	433	0.1036782	30	
14	0	9.7915963	267	9.8651445	166	9.8964517	434	0.1035483	0	46
	30	9.7916764	267	9.8650947	165	9.8965817	433	0.1034183	30	
15	0	9.7917566	267	9.8650450	166	9.8967116	433	0.1032884	0	45
	30	9.7918367	267	9.8649952	166	9.8968415	433	0.1031585	30	
16	0	9.7919168	267	9.8649453	166	9.8969714	433	0.1030286	0	44
	30	9.7919968	267	9.8648956	166	9.8971013	433	0.1028987	30	
17	0	9.7920769	266	9.8648457	167	9.8972312	433	0.1027688	0	43
	30	9.7921569	267	9.8647958	166	9.8973611	433	0.1026389	30	
18	0	9.7922369	266	9.8647459	166	9.8974910	432	0.1025090	0	42
	30	9.7923168	267	9.8646960	166	9.8976208	433	0.1023792	30	
19	0	9.7923968	266	9.8646461	166	9.8977507	433	0.1022493	0	41
	30	9.7924767	267	9.8645962	166	9.8978806	433	0.1021195	30	
20	0	9.7925566	266	9.8645463	167	9.8980104	432	0.1019896	0	40
	30	9.7926365	266	9.8644963	166	9.8981402	433	0.1018598	30	
21	0	9.7927163	266	9.8644463	166	9.8982700	433	0.1017300	0	39
	30	9.7927962	266	9.8643964	167	9.8983998	433	0.1016002	30	
22	0	9.7928760	266	9.8643464	167	9.8985296	433	0.1014704	0	38
	30	9.7929557	266	9.8642963	166	9.8986594	433	0.1013406	30	
23	0	9.7930355	266	9.8642463	167	9.8987892	432	0.1012108	0	37
	30	9.7931152	266	9.8641963	167	9.8989190	432	0.1010810	30	
24	0	9.7931949	266	9.8641462	167	9.8990487	433	0.1009513	0	36
	30	9.7932746	266	9.8640961	166	9.8991785	432	0.1008215	30	
25	0	9.7933543	265	9.8640461	167	9.8993082	433	0.1006918	0	35
	30	9.7934339	266	9.8639960	167	9.8994380	432	0.1005620	30	
26	0	9.7935136	265	9.8639458	167	9.8995677	432	0.1004323	0	34
	30	9.7935931	265	9.8638957	167	9.8996974	432	0.1003026	30	
27	0	9.7936727	265	9.8638456	168	9.8998271	432	0.1001729	0	33
	30	9.7937522	265	9.8637954	167	9.8999568	432	0.1000432	30	
28	0	9.7938317	265	9.8637452	167	9.9000865	432	0.0999135	0	32
	30	9.7939112	265	9.8636950	167	9.9002162	432	0.0997838	30	
29	0	9.7939907	265	9.8636448	167	9.9003459	432	0.0996541	0	31
	30	9.7940701	265	9.8635946	167	9.9004755	433	0.0995245	30	
30	0	9.7941496		9.8635444		9.9006052		0.0993948	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.7941496	264	9.8935444	168	9.9006052	432	0.0993948	0	30
	30	9.7942290	264	9.8934941	167	9.9007348	433	0.0992652	30	
31	0	9.7943083	266	9.8934439	168	9.9008645	432	0.0991355	0	29
	30	9.7943877	264	9.8933936	168	9.9009941	432	0.0990059	30	
32	0	9.7944670	266	9.8933433	168	9.9011237	433	0.0988763	0	28
	30	9.7945463	265	9.8932930	168	9.9012534	432	0.0987466	30	
33	0	9.7946256	264	9.8932426	167	9.9013830	432	0.0986170	0	27
	30	9.7947049	264	9.8931923	168	9.9015126	432	0.0984874	30	
34	0	9.7947841	264	9.8931419	168	9.9016422	431	0.0983578	0	26
	30	9.7948633	264	9.8930916	168	9.9017717	432	0.0982283	30	
35	0	9.7949426	264	9.8930412	168	9.9019013	432	0.0980987	0	25
	30	9.7950216	264	9.8929908	168	9.9020309	432	0.0979691	30	
36	0	9.7951008	264	9.8929404	168	9.9021604	432	0.0978396	0	24
	30	9.7951799	264	9.8928899	168	9.9022900	432	0.0977100	30	
37	0	9.7952590	263	9.8928395	168	9.9024195	432	0.0975805	0	23
	30	9.7953381	263	9.8927890	168	9.9025490	432	0.0974510	30	
38	0	9.7954171	263	9.8927385	168	9.9026786	431	0.0973214	0	22
	30	9.7954961	264	9.8926880	168	9.9028081	432	0.0971919	30	
39	0	9.7955751	263	9.8926375	168	9.9029376	431	0.0970624	0	21
	30	9.7956541	263	9.8925870	168	9.9030671	431	0.0969329	30	
40	0	9.7957330	263	9.8925365	169	9.9031966	431	0.0968034	0	20
	30	9.7958120	263	9.8924859	168	9.9033260	432	0.0966740	30	
41	0	9.7958909	263	9.8924354	169	9.9034555	432	0.0965445	0	19
	30	9.7959697	263	9.8923848	169	9.9035850	431	0.0964150	30	
42	0	9.7960486	263	9.8923342	169	9.9037144	432	0.0962856	0	18
	30	9.7961274	263	9.8922836	169	9.9038439	431	0.0961561	30	
43	0	9.7962062	263	9.8922329	168	9.9039733	432	0.0960267	0	17
	30	9.7962850	263	9.8921823	169	9.9041027	432	0.0958973	30	
44	0	9.7963638	262	9.8921316	168	9.9042321	432	0.0957679	0	16
	30	9.7964425	263	9.8920810	169	9.9043616	431	0.0956384	30	
45	0	9.7965212	263	9.8920303	169	9.9044910	431	0.0955090	0	15
	30	9.7965999	263	9.8919796	169	9.9046204	431	0.0953796	30	
46	0	9.7966786	262	9.8919289	170	9.9047497	432	0.0952503	0	14
	30	9.7967572	262	9.8918781	169	9.9048791	431	0.0951209	30	
47	0	9.7968359	262	9.8918274	169	9.9050085	431	0.0949915	0	13
	30	9.7969145	262	9.8917766	169	9.9051378	432	0.0948622	30	
48	0	9.7969930	262	9.8917258	169	9.9052672	431	0.0947328	0	12
	30	9.7970716	262	9.8916750	169	9.9053965	432	0.0946035	30	
49	0	9.7971501	262	9.8916242	169	9.9055259	431	0.0944741	0	11
	30	9.7972286	262	9.8915734	169	9.9056552	431	0.0943448	30	
50	0	9.7973071	261	9.8915226	170	9.9057845	431	0.0942155	0	10
	30	9.7973856	261	9.8914717	169	9.9059138	431	0.0940862	30	
51	0	9.7974640	261	9.8914208	169	9.9060431	431	0.0939569	0	9
	30	9.7975424	261	9.8913700	170	9.9061724	431	0.0938276	30	
52	0	9.7976208	261	9.8913191	170	9.9063017	431	0.0936983	0	8
	30	9.7976991	262	9.8912681	169	9.9064310	431	0.0935690	30	
53	0	9.7977775	261	9.8912172	170	9.9065603	431	0.0934397	0	7
	30	9.7978558	261	9.8911663	170	9.9066895	431	0.0933105	30	
54	0	9.7979341	261	9.8911153	170	9.9068188	431	0.0931812	0	6
	30	9.7980124	261	9.8910643	170	9.9069480	431	0.0930520	30	
55	0	9.7980906	261	9.8910133	170	9.9070773	431	0.0929227	0	5
	30	9.7981688	261	9.8909623	170	9.9072065	431	0.0927935	30	
56	0	9.7982470	261	9.8909113	170	9.9073357	431	0.0926643	0	4
	30	9.7983252	251	9.8908603	170	9.9074649	431	0.0925351	30	
57	0	9.7984034	260	9.8908092	170	9.9075941	431	0.0924059	0	3
	30	9.7984815	260	9.8907582	171	9.9077233	431	0.0922767	30	
58	0	9.7985596	260	9.8907071	171	9.9078525	431	0.0921475	0	2
	30	9.7986377	260	9.8906560	171	9.9079817	431	0.0920183	30	
59	0	9.7987158	260	9.8906049	171	9.9081109	430	0.0918891	0	1
	30	9.7987938	260	9.8905537	170	9.9082401	430	0.0917599	30	
60	0	9.7988718		9.8905026		9.9083692		0.0916308	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.7988718	260	9.8905026	171	9.9083692	431	0.0916308	0	60
	30	9.7989498	260	9.8904514	170	9.9084984	430	0.0915016	30	
1	0	9.7990278	259	9.8904003	171	9.9086275	430	0.0913725	0	59
	30	9.7991057	260	9.8903491	171	9.9087566	431	0.0912434	30	
2	0	9.7991836	260	9.8902979	171	9.9088858	430	0.0911142	0	58
	30	9.7992615	260	9.8902467	171	9.9090149	430	0.0909851	30	
3	0	9.7993394	260	9.8901954	171	9.9091440	430	0.0908560	0	57
	30	9.7994173	259	9.8901442	171	9.9092731	430	0.0907269	30	
4	0	9.7994951	259	9.8900929	171	9.9094022	430	0.0905978	0	56
	30	9.7995729	259	9.8900416	171	9.9095313	430	0.0904687	30	
5	0	9.7996507	259	9.8899903	171	9.9096603	431	0.0903397	0	55
	30	9.7997284	259	9.8899390	171	9.9097894	430	0.0902106	30	
6	0	9.7998062	259	9.8898877	171	9.9099185	430	0.0900815	0	54
	30	9.7998839	259	9.8898364	172	9.9100476	431	0.0899525	30	
7	0	9.7999616	259	9.8897850	171	9.9101766	430	0.0898234	0	53
	30	9.8000392	259	9.8897336	171	9.9103056	430	0.0896944	30	
8	0	9.8001169	259	9.8896822	171	9.9104347	430	0.0895653	0	52
	30	9.8001945	259	9.8896308	171	9.9105637	430	0.0894363	30	
9	0	9.8002721	259	9.8895794	171	9.9106927	430	0.0893073	0	51
	30	9.8003497	258	9.8895280	172	9.9108217	430	0.0891783	30	
10	0	9.8004272	259	9.8894765	171	9.9109507	430	0.0890493	0	50
	30	9.8005048	258	9.8894251	172	9.9110797	430	0.0889203	30	
11	0	9.8005823	258	9.8893736	172	9.9112087	430	0.0887913	0	49
	30	9.8006598	258	9.8893221	172	9.9113377	429	0.0886623	30	
12	0	9.8007372	258	9.8892706	172	9.9114666	430	0.0885334	0	48
	30	9.8008147	258	9.8892191	172	9.9115956	430	0.0884044	30	
13	0	9.8008921	258	9.8891675	172	9.9117245	430	0.0882755	0	47
	30	9.8009695	257	9.8891160	172	9.9118535	430	0.0881465	30	
14	0	9.8010468	258	9.8890644	172	9.9119824	430	0.0880176	0	46
	30	9.8011242	257	9.8890128	172	9.9121114	429	0.0878886	30	
15	0	9.8012015	258	9.8889612	172	9.9122403	429	0.0877597	0	45
	30	9.8012788	258	9.8889096	172	9.9123692	430	0.0876308	30	
16	0	9.8013561	257	9.8888580	172	9.9124981	430	0.0875019	0	44
	30	9.8014333	258	9.8888063	174	9.9126270	430	0.0873730	30	
17	0	9.8015106	257	9.8887547	173	9.9127559	430	0.0872441	0	43
	30	9.8015878	257	9.8887030	172	9.9128848	429	0.0871152	30	
18	0	9.8016649	258	9.8886513	172	9.9130137	429	0.0869863	0	42
	30	9.8017421	257	9.8885996	173	9.9131425	430	0.0868575	30	
19	0	9.8018192	258	9.8885479	173	9.9132714	429	0.0867286	0	41
	30	9.8018964	257	9.8884961	172	9.9134002	430	0.0865998	30	
20	0	9.8019735	256	9.8884444	173	9.9135291	429	0.0864709	0	40
	30	9.8020505	257	9.8883926	173	9.9136579	430	0.0863421	30	
21	0	9.8021276	256	9.8883408	173	9.9137868	429	0.0862132	0	39
	30	9.8022046	257	9.8882890	173	9.9139156	429	0.0860844	30	
22	0	9.8022816	257	9.8882372	173	9.9140444	429	0.0859556	0	38
	30	9.8023586	256	9.8881854	173	9.9141732	429	0.0858268	30	
23	0	9.8024355	257	9.8881335	173	9.9143020	429	0.0856980	0	37
	30	9.8025125	256	9.8880817	173	9.9144308	429	0.0855692	30	
24	0	9.8025894	256	9.8880298	173	9.9145596	429	0.0854404	0	36
	30	9.8026663	256	9.8879779	173	9.9146884	429	0.0853116	30	
25	0	9.8027431	256	9.8879260	173	9.9148171	430	0.0851829	0	35
	30	9.8028200	256	9.8878741	174	9.9149459	429	0.0850541	30	
26	0	9.8028968	256	9.8878221	173	9.9150747	429	0.0849253	0	34
	30	9.8029736	256	9.8877702	174	9.9152034	429	0.0847966	30	
27	0	9.8030504	255	9.8877182	173	9.9153322	429	0.0846678	0	33
	30	9.8031271	256	9.8876662	173	9.9154609	429	0.0845391	30	
28	0	9.8032038	255	9.8876142	173	9.9155896	429	0.0844104	0	32
	30	9.8032805	256	9.8875622	173	9.9157184	429	0.0842816	30	
29	0	9.8033572	256	9.8875102	174	9.9158471	429	0.0841529	0	31
	30	9.8034339	255	9.8874581	173	9.9159758	429	0.0840242	30	
30	0	9.8035105		9.8874061		9.9161045		0.0838955	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.8036105	256	9.8874061	174	9.9161045	429	0.0838955	0	30
	30	9.8036371	256	9.8873686	174	9.9162332	429	0.0837668	30	
31	0	9.8036637	256	9.8873019	174	9.9163618	429	0.0836382	0	29
	30	9.8037403	255	9.8872498	174	9.9164905	429	0.0835095	30	
32	0	9.8038168	256	9.8871977	174	9.9166192	429	0.0833808	0	28
	30	9 8038434	255	9.8871455	174	9.9167479	428	0.0832521	30	
33	0	9.8039699	255	9.8870934	174	9.9168765	429	0.0831235	0	27
	30	9.8040464	254	9.8870412	174	9.9170052	428	0.0829948	30	
34	0	9.8041228	255	9.8869890	174	9.9171338	429	0.0828662	0	26
	30	9.8041992	255	9.8869368	174	9.9172624	429	0.0827376	30	
35	0	9.8042757	254	9.8868846	174	9.9173911	428	0.0826089	0	25
	30	9.8043520	255	9.8868324	175	9.9175197	429	0.0824803	30	
36	0	9.8044284	255	9.8867801	174	9.9176483	429	0.0823517	0	24
	30	9.8045047	255	9.8867278	174	9.9177769	429	0.0822231	30	
37	0	9.8045811	254	9.8866756	175	9.9179055	429	0.0820945	0	23
	30	9.8046574	254	9.8866233	175	9.9180341	429	0.0819659	30	
38	0	9.8047336	255	9.8865710	175	9.9181627	428	0.0818373	0	22
	30	9.8048099	254	9.8865186	174	9.9182913	428	0.0817087	30	
39	0	9.8048861	254	9.8864663	175	9.9184198	429	0.0815802	0	21
	30	9.8049623	254	9.8864139	174	9.9185484	428	0.0814516	30	
40	0	9.8050385	254	9.8863616	175	9.9186769	429	0.0813231	0	20
	30	9.8051147	254	9.8863092	175	9.9188055	428	0.0811945	30	
41	0	9.8051908	254	9.8862568	175	9.9189340	429	0.0810660	0	19
	30	9.8052669	254	9.8862044	175	9.9190626	428	0.0809374	30	
42	0	9.8053430	254	9.8861519	175	9.9191911	428	0.0808089	0	18
	30	9.8054191	254	9.8860995	175	9.9193196	429	0.0806804	30	
43	0	9.8054951	254	9.8860470	175	9.9194481	429	0.0805519	0	17
	30	9.8055712	253	9.8859945	175	9.9195766	429	0.0804234	30	
44	0	9.8056472	253	9.8859420	175	9.9197051	429	0.0802949	0	16
	30	9.8057232	253	9.8858895	175	9.9198336	429	0.0801664	30	
45	0	9.8057991	253	9.8858370	175	9.9199621	428	0.0800379	0	15
	30	9.8058751	253	9.8857845	176	9.9200906	428	0.0799094	30	
46	0	9.8059510	253	9.8857319	175	9.9202191	428	0.0797809	0	14
	30	9.8060269	253	9.8856793	175	9.9203475	429	0.0796525	30	
47	0	9.8061027	253	9.8856267	175	9.9204760	428	0.0795240	0	13
	30	9.8061786	253	9.8855741	175	9.9206044	429	0.0793956	30	
48	0	9.8062544	253	9.8855215	175	9.9207329	428	0.0792671	0	12
	30	9.8063302	253	9.8854689	176	9.9208613	428	0.0791387	30	
49	0	9.8064060	252	9.8854162	175	9.9209898	428	0.0790102	0	11
	30	9.8064817	253	9.8853636	176	9.9211182	428	0.0788818	30	
50	0	9.8065575	252	9.8853109	176	9.9212466	428	0.0787534	0	10
	30	9.8066332	252	9.8852582	176	9.9213750	428	0.0786250	30	
51	0	9.8067089	252	9.8852055	176	9.9215034	428	0.0784966	0	9
	30	9.8067846	252	9.8851527	175	9.9216318	428	0.0783682	30	
52	0	9.8068602	252	9.8851000	176	9.9217602	428	0.0782398	0	8
	30	9.8069358	252	9.8850472	175	9.9218886	428	0.0781114	30	
53	0	9.8070114	252	9.8849945	176	9.9220170	428	0.0779830	0	7
	30	9.8070870	252	9.8849417	176	9.9221453	428	0.0778547	30	
54	0	9.8071626	251	9.8848889	176	9.9222737	428	0.0777263	0	6
	30	9.8072381	252	9.8848360	176	9.9224020	428	0.0775980	30	
55	0	9.8073136	252	9.8847832	176	9.9225304	428	0.0774696	0	5
	30	9.8073891	252	9.8847304	177	9.9226587	428	0.0773413	30	
56	0	9.8074646	251	9.8846775	176	9.9227871	428	0.0772129	0	4
	30	9.8075400	252	9.8846246	176	9.9229154	428	0.0770846	30	
57	0	9.8076154	252	9.8845717	176	9.9230437	428	0.0769563	0	3
	30	9.8076908	252	9.8845188	177	9.9231720	428	0.0768280	30	
58	0	9.8077662	251	9.8844659	177	9.9233004	427	0.0766996	0	2
	30	9.8078416	251	9.8844129	176	9.9234287	427	0.0765713	30	
59	0	9.8079169	251	9.8843599	176	9.9235570	427	0.0764430	0	1
	30	9.8079922	251	9.8843070	177	9.9236852	428	0.0763148	30	
60	0	9.8080675		9.8842540		9.9238135		0.0761865	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.8080675	251	9.8842540	177	9.9238135	428	0.0761865	0	60
	30	9.8081428	250	9.8842010	177	9.9239418	428	0.0760582	30	
1	0	9.8082180	251	9.8841479	176	9.9240701	427	0.0759299	0	59
	30	9.8082932	251	9.8840949	177	9.9241983	428	0.0758017	30	
2	0	9.8083684	251	9.8840418	177	9.9243266	427	0.0756734	0	58
	30	9.8084436	251	9.8839888	177	9.9244548	428	0.0755452	30	
3	0	9.8085188	250	9.8839357	177	9.9245831	427	0.0754169	0	57
	30	9.8085939	250	9.8838826	177	9.9247113	428	0.0752887	30	
4	0	9.8086690	250	9.8838294	177	9.9248396	427	0.0751604	0	56
	30	9.8087441	250	9.8837763	177	9.9249678	427	0.0750322	30	
5	0	9.8088192	250	9.8837232	178	9.9250960	427	0.0749040	0	55
	30	9.8088942	250	9.8836700	177	9.9252242	428	0.0747758	30	
6	0	9.8089692	250	9.8836168	177	9.9253524	428	0.0746476	0	54
	30	9.8090442	250	9.8835636	177	9.9254806	427	0.0745194	30	
7	0	9.8091192	250	9.8835104	177	9.9256088	427	0.0743912	0	53
	30	9.8091942	249	9.8834572	178	9.9257370	427	0.0742630	30	
8	0	9.8092691	250	9.8834039	177	9.9258652	427	0.0741348	0	52
	30	9.8093440	250	9.8833507	178	9.9259933	428	0.0740067	30	
9	0	9.8094189	250	9.8832974	178	9.9261215	427	0.0738785	0	51
	30	9.8094938	249	9.8832441	178	9.9262497	427	0.0737503	30	
10	0	9.8095686	250	9.8831908	178	9.9263778	427	0.0736222	0	50
	30	9.8096434	250	9.8831375	178	9.9265060	427	0.0734940	30	
11	0	9.8097182	250	9.8830841	178	9.9266341	427	0.0733659	0	49
	30	9.8097930	249	9.8830308	178	9.9267623	427	0.0732377	30	
12	0	9.8098678	249	9.8829774	178	9.9268904	427	0.0731096	0	48
	30	9.8099425	249	9.8829240	178	9.9270185	427	0.0729815	30	
13	0	9.8100172	249	9.8828706	178	9.9271466	427	0.0728534	0	47
	30	9.8100919	249	9.8828172	178	9.9272747	427	0.0727253	30	
14	0	9.8101666	249	9.8827638	179	9.9274028	427	0.0725972	0	46
	30	9.8102412	249	9.8827103	178	9.9275309	427	0.0724691	30	
15	0	9.8103159	248	9.8826568	178	9.9276590	427	0.0723410	0	45
	30	9.8103905	248	9.8826034	179	9.9277871	427	0.0722129	30	
16	0	9.8104650	249	9.8825499	179	9.9279152	427	0.0720848	0	44
	30	9.8105396	249	9.8824963	178	9.9280433	426	0.0719567	30	
17	0	9.8106141	249	9.8824428	178	9.9281713	427	0.0718287	0	43
	30	9.8106887	248	9.8823893	179	9.9282994	427	0.0717006	30	
18	0	9.8107631	249	9.8823357	178	9.9284274	427	0.0715726	0	42
	30	9.8108376	248	9.8822821	178	9.9285555	427	0.0714445	30	
19	0	9.8109121	248	9.8822285	178	9.9286835	427	0.0713165	0	41
	30	9.8109865	248	9.8821749	178	9.9288116	426	0.0711884	30	
20	0	9.8110609	248	9.8821213	179	9.9289396	427	0.0710604	0	40
	30	9.8111353	248	9.8820677	179	9.9290676	427	0.0709324	30	
21	0	9.8112096	248	9.8820140	179	9.9291956	427	0.0708044	0	39
	30	9.8112840	248	9.8819603	178	9.9293236	427	0.0706764	30	
22	0	9.8113583	248	9.8819067	179	9.9294516	427	0.0705484	0	38
	30	9.8114326	248	9.8818530	179	9.9295796	427	0.0704204	30	
23	0	9.8115069	247	9.8817992	179	9.9297076	427	0.0702924	0	37
	30	9.8115811	248	9.8817455	179	9.9298356	427	0.0701644	30	
24	0	9.8116554	247	9.8816918	180	9.9299636	427	0.0700364	0	36
	30	9.8117296	247	9.8816380	179	9.9300916	426	0.0699084	30	
25	0	9.8118038	247	9.8815842	179	9.9302195	427	0.0697805	0	35
	30	9.8118779	247	9.8815304	179	9.9303475	427	0.0696525	30	
26	0	9.8119521	247	9.8814766	179	9.9304755	426	0.0695245	0	34
	30	9.8120262	247	9.8814228	180	9.9306034	427	0.0693966	30	
27	0	9.8121003	247	9.8813689	179	9.9307314	426	0.0692686	0	33
	30	9.8121744	246	9.8813151	180	9.9308593	426	0.0691407	30	
28	0	9.8122484	247	9.8812612	180	9.9309872	427	0.0690128	0	32
	30	9.8123224	247	9.8812073	180	9.9311152	426	0.0688848	30	
29	0	9.8123965	246	9.8811534	180	9.9312431	426	0.0687569	0	31
	30	9.8124704	247	9.8810995	180	9.9313710	426	0.0686290	30	
30	0	9.8125444		9.8810456		9.9314989		0.0685011	0	30
″		l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.8125444	247	9.8810455	180	9.9314989	426	0.0685011	0	30
	30	9.8126184	246	9.8809916	180	9.9316268	426	0.0683732	30	
31	0	9.8126923	246	9.8803376	180	9.9317547	426	0.0682453	0	29
	30	9.8127662	245	9.8808836	180	9.9318826	426	0.0681174	30	
32	0	9.8128401	246	9.8808296	180	9.9320105	426	0.0679895	0	28
	30	9.8129139	246	9.8807756	180	9.9321384	426	0.0678616	30	
33	0	9.8129878	246	9.8807215	180	9.9322662	427	0.0677338	0	27
	30	9.8130616	246	9.8806675	180	9.9323941	426	0.0676059	30	
34	0	9.8131354	246	9.8806134	180	9.9325220	426	0.0674780	0	26
	30	9.8132092	245	9.8805593	180	9.9326498	426	0.0673502	30	
35	0	9.8132829	246	9.8805052	180	9.9327777	426	0.0672223	0	25
	30	9.8133566	246	9.8804511	180	9.9329055	426	0.0670945	30	
36	0	9.8134303	246	9.8803970	181	9.9330334	426	0.0669666	0	24
	30	9.8135040	246	9.8803428	180	9.9331612	426	0.0668388	30	
37	0	9.8135777	245	9.8802887	181	9.9332890	426	0.0667110	0	23
	30	9.8136513	246	9.8802345	181	9.9334168	426	0.0665832	30	
38	0	9.8137250	245	9.8801803	181	9.9335446	427	0.0664554	0	22
	30	9.8137986	245	9.8801261	181	9.9336725	426	0.0663275	30	
39	0	9.8138721	245	9.8800719	181	9.9338003	426	0.0661997	0	21
	30	9.8139457	245	9.8800176	181	9.9339281	426	0.0660719	30	
40	0	9.8140192	245	9.8799634	181	9.9340559	426	0.0659441	0	20
	30	9.8140927	245	9.8799091	181	9.9341836	426	0.0658164	30	
41	0	9.8141662	245	9.8798548	181	9.9343114	426	0.0656886	0	19
	30	9.8142397	245	9.8798005	181	9.9344392	426	0.0655608	30	
42	0	9.8143131	245	9.8797462	181	9.9345670	426	0.0654330	0	18
	30	9.8143866	244	9.8796918	181	9.9346947	426	0.0653053	30	
43	0	9.8144600	244	9.8796375	181	9.9348225	426	0.0651775	0	17
	30	9.8145334	244	9.8795831	181	9.9349502	426	0.0650498	30	
44	0	9.8146067	245	9.8795287	181	9.9350780	426	0.0649220	0	16
	30	9.8146801	244	9.8794743	181	9.9352057	426	0.0647943	30	
45	0	9.8147534	244	9.8794199	182	9.9353335	426	0.0646665	0	15
	30	9.8148267	244	9.8793655	182	9.9354612	426	0.0645388	30	
46	0	9.8148999	245	9.8793110	181	9.9355889	426	0.0644111	0	14
	30	9.8149732	244	9.8792565	181	9.9357167	425	0.0642833	30	
47	0	9.8150464	244	9.8792021	182	9.9358444	425	0.0641556	0	13
	30	9.8151196	244	9.8791476	182	9.9359721	425	0.0640279	30	
48	0	9.8151928	244	9.8790930	181	9.9360998	425	0.0639002	0	12
	30	9.8152660	244	9.8790385	182	9.9362275	425	0.0637725	30	
49	0	9.8153391	244	9.8789840	182	9.9363552	425	0.0636448	0	11
	30	9.8154123	243	9.8789294	182	9.9364829	425	0.0635171	30	
50	0	9.8154854	243	9.8788748	182	9.9366105	426	0.0633895	0	10
	30	9.8155584	244	9.8788202	182	9.9367382	426	0.0632618	30	
51	0	9.8156315	244	9.8787656	182	9.9368659	425	0.0631341	0	9
	30	9.8157045	244	9.8787110	182	9.9369936	425	0.0630064	30	
52	0	9.8157776	243	9.8786563	182	9.9371212	426	0.0628788	0	8
	30	9.8158506	243	9.8786017	182	9.9372489	425	0.0627511	30	
53	0	9.8159235	244	9.8785470	182	9.9373765	426	0.0626235	0	7
	30	9.8159965	243	9.8784923	182	9.9375042	425	0.0624958	30	
54	0	9.8160694	243	9.8784376	182	9.9376318	425	0.0623682	0	6
	30	9.8161423	243	9.8783829	183	9.9377594	426	0.0622406	30	
55	0	9.8162152	243	9.8783281	182	9.9378871	425	0.0621129	0	5
	30	9.8162881	243	9.8782734	183	9.9380147	425	0.0619853	30	
56	0	9.8163609	243	9.8782185	182	9.9381423	425	0.0618577	0	4
	30	9.8164337	243	9.8781638	182	9.9382699	426	0.0617301	30	
57	0	9.8165066	242	9.8781090	182	9.9383975	426	0.0616025	0	3
	30	9.8165793	243	9.8780542	183	9.9385251	426	0.0614749	30	
58	0	9.8166521	242	9.8779994	183	9.9386527	426	0.0613475	0	2
	30	9.8167248	243	9.8779445	183	9.9387803	425	0.0612197	30	
59	0	9.8167975	243	9.8778896	182	9.9389079	425	0.0610921	0	1
	30	9.8168702	243	9.8778348	183	9.9390355	425	0.0609645	30	
60	0	9.8169429		9.8777799		9.9391631		0.0608369	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.8169429	242	9.8777799	183	9.9391631	425	0.0608369	0	60
	30	9.8170156	242	9.8777249	183	9.9392906	425	0.0607094	30	
1	0	9.8170882	242	9.8776700	183	9.9394182	425	0.0605818	0	59
	30	9.8171608	242	9.8776151	184	9.9395457	426	0.0604543	30	
2	0	9.8172334	242	9.8775601	183	9.9396733	425	0.0603267	0	58
	30	9.8173060	242	9.8775051	183	9.9398009	425	0.0601991	30	
3	0	9.8173785	242	9.8774501	183	9.9399284	425	0.0600716	0	57
	30	9.8174510	242	9.8773951	183	9.9400559	425	0.0599441	30	
4	0	9.8175235	242	9.8773401	184	9.9401835	425	0.0598165	0	56
	30	9.8175960	242	9.8772850	183	9.9403110	425	0.0596890	30	
5	0	9.8176685	241	9.8772300	184	9.9404385	425	0.0595615	0	55
	30	9.8177409	242	9.8771749	184	9.9405660	425	0.0594340	30	
6	0	9.8178133	242	9.8771198	184	9.9406936	425	0.0593064	0	54
	30	9.8178857	242	9.8770647	184	9.9408211	425	0.0591789	30	
7	0	9.8179581	241	9.8770096	184	9.9409486	425	0.0590514	0	53
	30	9.8180305	241	9.8769544	184	9.9410761	425	0.0589239	30	
8	0	9.8181028	241	9.8768993	184	9.9412036	425	0.0587964	0	52
	30	9.8181751	241	9.8768441	184	9.9413310	425	0.0586690	30	
9	0	9.8182474	241	9.8767889	184	9.9414585	425	0.0585415	0	51
	30	9.8183197	241	9.8767337	184	9.9415860	425	0.0584140	30	
10	0	9.8183919	241	9.8766785	185	9.9417135	425	0.0582865	0	50
	30	9.8184642	240	9.8766232	184	9.9418409	425	0.0581591	30	
11	0	9.8185364	240	9.8765680	185	9.9419684	425	0.0580316	0	49
	30	9.8186086	240	9.8765127	184	9.9420959	425	0.0579041	30	
12	0	9.8186807	241	9.8764574	184	9.9422233	425	0.0577767	0	48
	30	9.8187529	240	9.8764021	185	9.9423508	425	0.0576492	30	
13	0	9.8188250	240	9.8763468	185	9.9424782	425	0.0575218	0	47
	30	9.8188971	240	9.8762914	184	9.9426057	424	0.0573943	30	
14	0	9.8189692	240	9.8762361	185	9.9427331	425	0.0572669	0	46
	30	9.8190412	240	9.8761807	185	9.9428605	425	0.0571395	30	
15	0	9.8191133	240	9.8761253	184	9.9429879	425	0.0570121	0	45
	30	9.8191853	240	9.8760699	185	9.9431154	424	0.0568846	30	
16	0	9.8192573	240	9.8760145	185	9.9432428	424	0.0567572	0	44
	30	9.8193292	240	9.8759591	185	9.9433702	424	0.0566298	30	
17	0	9.8194012	240	9.8759036	185	9.9434976	425	0.0565024	0	43
	30	9.8194731	240	9.8758481	185	9.9436250	424	0.0563750	30	
18	0	9.8195450	240	9.8757927	185	9.9437524	424	0.0562476	0	42
	30	9.8196169	240	9.8757372	185	9.9438798	424	0.0561202	30	
19	0	9.8196888	239	9.8756816	185	9.9440072	424	0.0559928	0	41
	30	9.8197606	240	9.8756261	185	9.9441345	425	0.0558655	30	
20	0	9.8198325	239	9.8755706	186	9.9442619	425	0.0557381	0	40
	30	9.8199043	239	9.8755150	185	9.9443893	424	0.0556107	30	
21	0	9.8199761	239	9.8754594	185	9.9445166	425	0.0554834	0	39
	30	9.8200478	239	9.8754038	185	9.9446440	425	0.0553560	30	
22	0	9.8201196	239	9.8753482	185	9.9447714	424	0.0552286	0	38
	30	9.8201913	239	9.8752926	186	9.9448987	425	0.0551013	30	
23	0	9.8202630	239	9.8752369	185	9.9450261	424	0.0549739	0	37
	30	9.8203347	238	9.8751813	186	9.9451534	424	0.0548466	30	
24	0	9.8204063	239	9.8751256	186	9.9452807	425	0.0547193	0	36
	30	9.8204780	238	9.8750699	186	9.9454081	424	0.0545919	30	
25	0	9.8205496	238	9.8750142	186	9.9455354	424	0.0544646	0	35
	30	9.8206212	238	9.8749584	185	9.9456627	425	0.0543373	30	
26	0	9.8206927	239	9.8749027	186	9.9457900	425	0.0542100	0	34
	30	9.8207643	238	9.8748469	186	9.9459174	424	0.0540826	30	
27	0	9.8208358	239	9.8747912	186	9.9460447	424	0.0539553	0	33
	30	9.8209073	239	9.8747354	186	9.9461720	424	0.0538280	30	
28	0	9.8209788	238	9.8746795	186	9.9462993	424	0.0537007	0	32
	30	9.8210503	238	9.8746237	186	9.9464266	424	0.0535734	30	
29	0	9.8211217	238	9.8745679	186	9.9465539	424	0.0534461	0	31
	30	9.8211932	238	9.8745120	186	9.9466811	425	0.0533189	30	
30	0	9.8212646		9.8744561		9.9468084		0.0531916	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.8212646	238	9.8744561	186	9.9468084	425	0.0531916	0	30
	30	9.8213360	237	9.8744003	187	9.9463357	424	0.0536643	30	
31	0	9.8214073	238	9.8743443	186	9.9470630	424	0.0529370	0	29
	30	9.8214787	237	9.8742884	186	9.9471902	425	0.0528098	30	
32	0	9.8215500	238	9.8742325	187	9.9473175	424	0.0526825	0	28
	30	9.8216213	238	9.8741765	186	9.9474448	424	0.0525552	30	
33	0	9.8216926	237	9.8741205	186	9.9475720	424	0.0524280	0	27
	30	9.8217638	238	9.8740646	187	9.9476993	424	0.0523007	30	
34	0	9.8218351	237	9.8740085	186	9.9478265	424	0.0521735	0	26
	30	9.8219063	237	9.8739525	187	9.9479538	424	0.0520462	30	
35	0	9.8219775	237	9.8738965	187	9.9480810	424	0.0519190	0	25
	30	9.8220487	237	9.8738404	187	9.9482082	424	0.0517918	30	
36	0	9.8221198	237	9.8737844	187	9.9483355	424	0.0516645	0	24
	30	9.8221910	237	9.8737283	187	9.9484627	424	0.0515373	30	
37	0	9.8222621	237	9.8736722	187	9.9485899	424	0.0514101	0	23
	30	9.8223332	237	9.8736160	187	9.9487171	424	0.0512829	30	
38	0	9.8224042	237	9.8735599	187	9.9488443	424	0.0511557	0	22
	30	9.8224753	237	9.8735037	187	9.9489715	424	0.0510285	30	
39	0	9.8225463	237	9.8734476	188	9.9490987	424	0.0509013	0	21
	30	9.8226173	237	9.8733914	188	9.9492259	424	0.0507741	30	
40	0	9.8226883	237	9.8733352	188	9.9493531	424	0.0506469	0	20
	30	9.8227593	236	9.8732790	188	9.9494803	424	0.0505197	30	
41	0	9.8228302	237	9.8732227	187	9.9496075	424	0.0503925	0	19
	30	9.8229012	236	9.8731665	188	9.9497347	424	0.0502653	30	
42	0	9.8229721	236	9.8731102	188	9.9498619	424	0.0501381	0	18
	30	9.8230429	237	9.8730539	188	9.9499890	424	0.0500110	30	
43	0	9.8231138	236	9.8729976	188	9.9501162	424	0.0498838	0	17
	30	9.8231847	236	9.8729413	188	9.9502434	424	0.0497566	30	
44	0	9.8232555	236	9.8728849	187	9.9503705	424	0.0496295	0	16
	30	9.8233263	236	9.8728286	188	9.9504977	424	0.0495023	30	
45	0	9.8233971	235	9.8727722	188	9.9506248	424	0.0493752	0	15
	30	9.8234678	236	9.8727158	188	9.9507520	424	0.0492480	30	
46	0	9.8235386	235	9.8726594	188	9.9508791	424	0.0491209	0	14
	30	9.8236093	235	9.8726030	188	9.9510063	423	0.0489937	30	
47	0	9.8236800	235	9.8725466	188	9.9511334	424	0.0488666	0	13
	30	9.8237507	235	9.8724901	188	9.9512605	424	0.0487395	30	
48	0	9.8238213	236	9.8724337	189	9.9513876	424	0.0486124	0	12
	30	9.8238919	236	9.8723772	189	9.9515148	423	0.0484852	30	
49	0	9.8239626	235	9.8723207	189	9.9516419	424	0.0483581	0	11
	30	9.8240332	235	9.8722642	189	9.9517690	424	0.0482310	30	
50	0	9.8241037	236	9.8722076	188	9.9518961	424	0.0481039	0	10
	30	9.8241743	235	9.8721511	189	9.9520232	424	0.0479768	30	
51	0	9.8242448	235	9.8720945	189	9.9521503	424	0.0478497	0	9
	30	9.8243153	235	9.8720379	188	9.9522774	424	0.0477226	30	
52	0	9.8243858	235	9.8719813	188	9.9524045	424	0.0475955	0	8
	30	9.8244563	235	9.8719247	189	9.9525316	424	0.0474684	30	
53	0	9.8245267	235	9.8718681	189	9.9526587	423	0.0473413	0	7
	30	9.8245972	234	9.8718114	189	9.9527858	423	0.0472142	30	
54	0	9.8246676	235	9.8717548	189	9.9529128	424	0.0470872	0	6
	30	9.8247380	234	9.8716981	189	9.9530399	424	0.0469601	30	
55	0	9.8248083	235	9.8716414	189	9.9531670	423	0.0468330	0	5
	30	9.8248787	234	9.8715847	190	9.9532940	424	0.0467060	30	
56	0	9.8249490	235	9.8715279	189	9.9534211	423	0.0465789	0	4
	30	9.8250193	235	9.8714712	189	9.9535482	423	0.0464518	30	
57	0	9.8250896	234	9.8714144	189	9.9536752	424	0.0463248	0	3
	30	9.8251599	234	9.8713576	189	9.9538023	423	0.0461977	30	
58	0	9.8252301	234	9.8713008	189	9.9539293	423	0.0460707	0	2
	30	9.8253003	234	9.8712440	189	9.9540563	424	0.0459437	30	
59	0	9.8253705	234	9.8711872	190	9.9541834	423	0.0458166	0	1
	30	9.8254407	234	9.8711303	189	9.9543104	424	0.0456896	30	
60	0	9.8255109		9.8710735		9.9544374		0.0455626	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
0	0	9.8255109	234	9.8710735	190	9.9544374	424	0.0455626	0	60
	30	9.8255810	234	9.8710166	190	9.9545645	423	0.0454355	30	
1	0	9.8256512	233	9.8709597	190	9.9546915	423	0.0453085	0	59
	30	9.8257213	233	9.8709028	190	9.9548185	423	0.0451815	30	
2	0	9.8257913	234	9.8708458	190	9.9549455	424	0.0450545	0	58
	30	9.8258614	234	9.8707889	190	9.9550725	424	0.0449275	30	
3	0	9.8259314	234	9.8707319	190	9.9551995	424	0.0448005	0	57
	30	9.8260015	233	9.8706749	190	9.9553265	424	0.0446735	30	
4	0	9.8260715	233	9.8706179	190	9.9554535	424	0.0445465	0	56
	30	9.8261414	234	9.8705609	190	9.9555805	424	0.0444195	30	
5	0	9.8262114	233	9.8705039	190	9.9557075	423	0.0442925	0	55
	30	9.8262813	233	9.8704468	190	9.9558345	423	0.0441655	30	
6	0	9.8263512	234	9.8703898	191	9.9559615	423	0.0440385	0	54
	30	9.8264211	233	9.8703327	190	9.9560885	423	0.0439115	30	
7	0	9.8264910	233	9.8702756	191	9.9562154	424	0.0437846	0	53
	30	9.8265609	233	9.8702185	191	9.9563424	423	0.0436576	30	
8	0	9.8266307	233	9.8701613	190	9.9564694	423	0.0435306	0	52
	30	9.8267005	233	9.8701042	191	9.9565963	424	0.0434037	30	
9	0	9.8267703	233	9.8700470	190	9.9567233	423	0.0432767	0	51
	30	9.8268401	232	9.8699898	190	9.9568503	423	0.0431497	30	
10	0	9.8269098	233	9.8699326	190	9.9569772	423	0.0430228	0	50
	30	9.8269796	232	9.8698754	191	9.9571042	423	0.0428958	30	
11	0	9.8270493	232	9.8698182	191	9.9572311	423	0.0427689	0	49
	30	9.8271190	232	9.8697609	191	9.9573581	423	0.0426419	30	
12	0	9.8271887	232	9.8697037	191	9.9574850	423	0.0425150	0	48
	30	9.8272583	232	9.8696464	191	9.9576119	423	0.0423881	30	
13	0	9.8273279	232	9.8695891	191	9.9577389	423	0.0422611	0	47
	30	9.8273976	232	9.8695318	191	9.9578658	423	0.0421342	30	
14	0	9.8274671	232	9.8694744	191	9.9579927	423	0.0420073	0	46
	30	9.8275367	232	9.8694171	191	9.9581196	423	0.0418804	30	
15	0	9.8276063	231	9.8693597	191	9.9582465	424	0.0417535	0	45
	30	9.8276758	232	9.8693023	191	9.9583735	423	0.0416265	30	
16	0	9.8277453	232	9.8692449	191	9.9585004	423	0.0414996	0	44
	30	9.8278148	232	9.8691875	191	9.9586273	423	0.0413727	30	
17	0	9.8278843	231	9.8691301	192	9.9587542	423	0.0412458	0	43
	30	9.8279537	232	9.8690726	191	9.9588811	423	0.0411189	30	
18	0	9.8280231	232	9.8690152	192	9.9590080	423	0.0409920	0	42
	30	9.8280925	232	9.8689577	192	9.9591349	423	0.0408651	30	
19	0	9.8281619	232	9.8689002	192	9.9592618	423	0.0407382	0	41
	30	9.8282313	231	9.8688427	192	9.9593886	423	0.0406114	30	
20	0	9.8283006	232	9.8687851	192	9.9595155	423	0.0404845	0	40
	30	9.8283700	231	9.8687276	192	9.9596424	423	0.0403576	30	
21	0	9.8284393	231	9.8686700	192	9.9597693	423	0.0402307	0	39
	30	9.8285086	231	9.8686124	192	9.9598962	422	0.0401038	30	
22	0	9.8285778	231	9.8685548	192	9.9600230	423	0.0399770	0	38
	30	9.8286471	231	9.8684972	192	9.9601499	423	0.0398501	30	
23	0	9.8287163	231	9.8684396	193	9.9602767	423	0.0397233	0	37
	30	9.8287855	231	9.8683819	192	9.9604036	423	0.0395964	30	
24	0	9.8288547	231	9.8683242	192	9.9605305	422	0.0394695	0	36
	30	9.8289239	230	9.8682665	192	9.9606573	423	0.0393427	30	
25	0	9.8289930	231	9.8682088	192	9.9607842	422	0.0392158	0	35
	30	9.8290621	231	9.8681511	192	9.9609110	423	0.0390890	30	
26	0	9.8291312	231	9.8680934	193	9.9610378	423	0.0389622	0	34
	30	9.8292003	230	9.8680356	192	9.9611647	423	0.0388353	30	
27	0	9.8292694	230	9.8679779	193	9.9612915	423	0.0387085	0	33
	30	9.8293384	230	9.8679201	193	9.9614184	422	0.0385816	30	
28	0	9.8294075	230	9.8678623	193	9.9615452	423	0.0384548	0	32
	30	9.8294765	230	9.8678045	193	9.9616720	423	0.0383280	30	
29	0	9.8295454	230	9.8677466	193	9.9617988	423	0.0382012	0	31
	30	9.8296144	230	9.8676888	193	9.9619256	423	0.0380744	30	
30	0	9.8296833		9.8676309		9.9620525		0.0379475	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	d. 10″	l. cotan.	″	′
30	0	9.8296833	230	9.8676309	193	9.9620525	422	0.0379475	0	30
	30	9.8297523	229	9.8675730	193	9.9621793	422	0.0378207	30	
31	0	9.8298212	229	9.8675151	193	9.9623061	423	0.0376939	0	29
	30	9.8298901	229	9.8674572	193	9.9624329	423	0.0375671	30	
32	0	9.8299589	230	9.8673992	193	9.9625597	423	0.0374403	0	28
	30	9.8300278	229	9.8673413	194	9.9626865	423	0.0373135	30	
33	0	9.8300966	229	9.8672833	193	9.9628133	423	0.0371867	0	27
	30	9.8301654	229	9.8672253	193	9.9629401	422	0.0370599	30	
34	0	9.8302342	229	9.8671673	193	9.9630669	422	0.0369331	0	26
	30	9.8303029	229	9.8671093	194	9.9631937	422	0.0368063	30	
35	0	9.8303717	229	9.8670512	193	9.9633204	423	0.0366796	0	25
	30	9.8304404	229	9.8669932	194	9.9634472	423	0.0365528	30	
36	0	9.8305091	229	9.8669351	194	9.9635740	423	0.0364260	0	24
	30	9.8305778	229	9.8668770	194	9.9637008	422	0.0362992	30	
37	0	9.8306464	229	9.8668189	194	9.9638275	423	0.0361725	0	23
	30	9.8307151	229	9.8667608	194	9.9639543	423	0.0360457	30	
38	0	9.8307837	229	9.8667026	194	9.9640811	422	0.0359189	0	22
	30	9.8308523	229	9.8666445	194	9.9642078	423	0.0357922	30	
39	0	9.8309209	228	9.8665863	194	9.9643346	422	0.0356654	0	21
	30	9.8309894	229	9.8665281	194	9.9644614	422	0.0355386	30	
40	0	9.8310580	228	9.8664699	194	9.9645881	423	0.0354119	0	20
	30	9.8311265	228	9.8664117	195	9.9647149	422	0.0352851	30	
41	0	9.8311950	228	9.8663534	194	9.9648416	422	0.0351584	0	19
	30	9.8312635	228	9.8662952	195	9.9649683	423	0.0350317	30	
42	0	9.8313320	228	9.8662369	195	9.9650951	422	0.0349049	0	18
	30	9.8314004	228	9.8661786	195	9.9652218	423	0.0347782	30	
43	0	9.8314688	228	9.8661203	195	9.9653486	422	0.0346514	0	17
	30	9.8315372	228	9.8660619	194	9.9654753	422	0.0345247	30	
44	0	9.8316056	228	9.8660036	195	9.9656020	423	0.0343980	0	16
	30	9.8316740	228	9.8659452	194	9.9657287	423	0.0342713	30	
45	0	9.8317423	228	9.8658868	194	9.9658555	422	0.0341445	0	15
	30	9.8318106	228	9.8658284	194	9.9659822	422	0.0340178	30	
46	0	9.8318789	228	9.8657700	194	9.9661089	422	0.0338911	0	14
	30	9.8319472	228	9.8657116	195	9.9662356	423	0.0337644	30	
47	0	9.8320155	227	9.8656531	194	9.9663623	423	0.0336377	0	13
	30	9.8320837	228	9.8655947	195	9.9664890	423	0.0335110	30	
48	0	9.8321519	228	9.8655362	195	9.9666157	423	0.0333843	0	12
	30	9.8322201	228	9.8654777	195	9.9667425	422	0.0332575	30	
49	0	9.8322883	228	9.8654192	195	9.9668692	422	0.0331308	0	11
	30	9.8323565	227	9.8653606	195	9.9669958	423	0.0330042	30	
50	0	9.8324246	227	9.8653021	195	9.9671225	423	0.0328775	0	10
	30	9.8324928	227	9.8652435	195	9.9672492	423	0.0327508	30	
51	0	9.8325609	227	9.8651849	195	9.9673759	423	0.0326241	0	9
	30	9.8326289	227	9.8651263	195	9.9675026	422	0.0324974	30	
52	0	9.8326970	227	9.8650677	195	9.9676293	422	0.0323707	0	8
	30	9.8327651	226	9.8650091	196	9.9677560	422	0.0322440	30	
53	0	9.8328331	226	9.8649504	195	9.9678827	422	0.0321173	0	7
	30	9.8329011	226	9.8648918	196	9.9680093	423	0.0319907	30	
54	0	9.8329691	226	9.8648331	196	9.9681360	422	0.0318640	0	6
	30	9.8330370	227	9.8647744	196	9.9682627	422	0.0317373	30	
55	0	9.8331050	226	9.8647156	195	9.9683893	423	0.0316107	0	5
	30	9.8331729	226	9.8646569	196	9.9685160	422	0.0314840	30	
56	0	9.8332408	226	9.8645981	196	9.9686427	422	0.0313573	0	4
	30	9.8333087	226	9.8645394	196	9.9687693	422	0.0312307	30	
57	0	9.8333766	226	9.8644806	196	9.9688960	422	0.0311040	0	3
	30	9.8334444	226	9.8644218	196	9.9690226	423	0.0309774	30	
58	0	9.8335122	226	9.8643629	196	9.9691493	422	0.0308507	0	2
	30	9.8335800	226	9.8643041	196	9.9692759	423	0.0307241	30	
59	0	9.8336478	226	9.8642452	196	9.9694026	422	0.0305974	0	1
	30	9.8337156	226	9.8641864	197	9.9695292	422	0.0304708	30	
60	0	9.8337833		9.8641275		9.9696559		0.0303441	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
0	0	9.8337833	226	9.8641275	197	9.9696559	422	0.0303441	0	60
	30	9.8338511	225	9.8640686	197	9.9697825	422	0.0302175	30	
1	0	9.8339188	225	9.8640096	196	9.9699091	423	0.0300909	0	59
	30	9.8339865	225	9.8639507	197	9.9700358	422	0.0299642	30	
2	0	9.8340541	226	9.8638917	196	9.9701624	422	0.0298376	0	58
	30	9.8341218	225	9.8638327	196	9.9702890	422	0.0297110	30	
3	0	9.8341894	225	9.8637737	196	9.9704157	422	0.0295843	0	57
	30	9.8342570	225	9.8637147	197	9.9705423	422	0.0294577	30	
4	0	9.8343246	225	9.8636557	197	9.9706689	422	0.0293311	0	56
	30	9.8343922	225	9.8635966	196	9.9707955	422	0.0292045	30	
5	0	9.8344597	225	9.8635376	197	9.9709221	422	0.0290779	0	55
	30	9.8345272	225	9.8634785	197	9.9710487	423	0.0289513	30	
6	0	9.8345948	225	9.8634194	197	9.9711754	422	0.0288246	0	54
	30	9.8346622	225	9.8633603	197	9.9713020	422	0.0286980	30	
7	0	9.8347297	225	9.8633011	197	9.9714286	422	0.0285714	0	53
	30	9.8347972	224	9.8632420	197	9.9715552	422	0.0284448	30	
8	0	9.8348646	225	9.8631828	197	9.9716818	422	0.0283182	0	52
	30	9.8349320	225	9.8631236	197	9.9718084	422	0.0281916	30	
9	0	9.8349994	225	9.8630644	197	9.9719350	422	0.0280650	0	51
	30	9.8350668	224	9.8630052	197	9.9720616	422	0.0279384	30	
10	0	9.8351341	225	9.8629460	198	9.9721882	422	0.0278118	0	50
	30	9.8352015	224	9.8628867	197	9.9723147	422	0.0276853	30	
11	0	9.8352688	224	9.8628274	197	9.9724413	422	0.0275587	0	49
	30	9.8353361	224	9.8627681	197	9.9725679	422	0.0274321	30	
12	0	9.8354033	225	9.8627088	197	9.9726945	422	0.0273055	0	48
	30	9.8354706	224	9.8626495	198	9.9728211	422	0.0271789	30	
13	0	9.8355378	224	9.8625902	198	9.9729477	421	0.0270523	0	47
	30	9.8356050	224	9.8625303	198	9.9730742	422	0.0269258	30	
14	0	9.8356722	224	9.8624714	198	9.9732008	422	0.0267992	0	46
	30	9.8357394	224	9.8624120	198	9.9733274	422	0.0266726	30	
15	0	9.8358066	224	9.8623526	198	9.9734539	422	0.0265461	0	45
	30	9.8358737	224	9.8622932	198	9.9735805	422	0.0264195	30	
16	0	9.8359408	224	9.8622338	199	9.9737071	422	0.0262929	0	44
	30	9.8360079	224	9.8621743	198	9.9738336	422	0.0261664	30	
17	0	9.8360750	224	9.8621148	198	9.9739602	422	0.0260398	0	43
	30	9.8361421	223	9.8620553	198	9.9740868	421	0.0259132	30	
18	0	9.8362091	223	9.8619958	198	9.9742133	422	0.0257867	0	42
	30	9.8362761	224	9.8619363	199	9.9743399	421	0.0256601	30	
19	0	9.8363431	224	9.8618767	198	9.9744664	422	0.0255336	0	41
	30	9.8364101	223	9.8618171	198	9.9745930	421	0.0254070	30	
20	0	9.8364771	223	9.8617576	199	9.9747195	422	0.0252805	0	40
	30	9.8365440	223	9.8616980	199	9.9748461	421	0.0251539	30	
21	0	9.8366109	223	9.8616383	198	9.9749726	422	0.0250274	0	39
	30	9.8366778	223	9.8615787	199	9.9750991	422	0.0249009	30	
22	0	9.8367447	223	9.8615190	198	9.9752257	421	0.0247743	0	38
	30	9.8368116	223	9.8614594	199	9.9753522	422	0.0246478	30	
23	0	9.8368784	223	9.8613997	199	9.9754787	422	0.0245213	0	37
	30	9.8369452	223	9.8613400	199	9.9756053	421	0.0243947	30	
24	0	9.8370121	222	9.8612803	200	9.9757318	422	0.0242682	0	36
	30	9.8370788	223	9.8612205	199	9.9758583	422	0.0241417	30	
25	0	9.8371456	223	9.8611608	200	9.9759849	421	0.0240151	0	35
	30	9.8372124	222	9.8611010	200	9.9761114	422	0.0238886	30	
26	0	9.8372791	222	9.8610412	200	9.9762379	422	0.0237621	0	34
	30	9.8373458	222	9.8609814	200	9.9763644	422	0.0236356	30	
27	0	9.8374125	222	9.8609215	199	9.9764909	422	0.0235091	0	33
	30	9.8374791	223	9.8608617	200	9.9766174	422	0.0233826	30	
28	0	9.8375458	222	9.8608018	199	9.9767440	421	0.0232560	0	32
	30	9.8376124	222	9.8607420	200	9.9768705	422	0.0231295	30	
29	0	9.8376790	222	9.8606821	200	9.9769970	422	0.0230030	0	31
	30	9.8377456	222	9.8606221	199	9.9771235	422	0.0228765	30	
30	0	9.8378122		9.8605622		9.9772500		0.0227500	0	30
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.8378122	222	9.8605622	200	9.9772500	422	0.0227500	0	30
	30	9.8378888	221	9.8605023	200	9.9773765	422	0.0226235	30	
31	0	9.8379453	222	9.8604423	200	9.9775030	422	0.0224970	0	29
	30	9.8380118	222	9.8603823	200	9.9776295	422	0.0223705	30	
32	0	9.8380783	222	9.8603223	200	9.9777560	422	0.0222440	0	28
	30	9.8381448	221	9.8602623	200	9.9778825	422	0.0221175	30	
33	0	9.8382112	222	9.8602022	200	9.9780090	422	0.0219910	0	27
	30	9.8382777	221	9.8601422	200	9.9781355	421	0.0218645	30	
34	0	9.8383441	221	9.8600821	200	9.9782620	421	0.0217380	0	26
	30	9.8384105	221	9.8600220	200	9.9783885	421	0.0216115	30	
35	0	9.8384769	221	9.8599619	200	9.9785149	422	0.0214851	0	25
	30	9.8385432	221	9.8599018	201	9.9786414	422	0.0213586	30	
36	0	9.8386096	221	9.8598416	200	9.9787679	422	0.0212321	0	24
	30	9.8386759	221	9.8597815	201	9.9788944	422	0.0211056	30	
37	0	9.8387422	221	9.8597213	201	9.9790209	421	0.0209791	0	23
	30	9.8388085	221	9.8596611	201	9.9791474	421	0.0208526	30	
38	0	9.8388747	221	9.8596009	201	9.9792738	422	0.0207262	0	22
	30	9.8389410	220	9.8595407	201	9.9794003	422	0.0205997	30	
39	0	9.8390072	221	9.8594804	201	9.9795268	422	0.0204732	0	21
	30	9.8390734	221	9.8594202	201	9.9796532	421	0.0203468	30	
40	0	9.8391336	220	9.8593599	201	9.9797797	422	0.0202203	0	20
	30	9.8392058	220	9.8592996	201	9.9799062	421	0.0200938	30	
41	0	9.8392719	220	9.8592393	202	9.9800326	422	0.0199674	0	19
	30	9.8393380	221	9.8591789	201	9.9801591	422	0.0198409	30	
42	0	9.8394041	221	9.8591186	202	9.9802856	421	0.0197144	0	18
	30	9.8394702	221	9.8590582	201	9.9804120	422	0.0195880	30	
43	0	9.8395363	220	9.8589978	201	9.9805385	421	0.0194615	0	17
	30	9.8396023	221	9.8589374	201	9.9806650	421	0.0193350	30	
44	0	9.8396684	220	9.8588770	202	9.9807914	422	0.0192086	0	16
	30	9.8397344	220	9.8588165	201	9.9809179	421	0.0190821	30	
45	0	9.8398004	220	9.8587561	202	9.9810443	422	0.0189557	0	15
	30	9.8398664	219	9.8586956	202	9.9811708	421	0.0188292	30	
46	0	9.8399323	220	9.8586351	202	9.9812972	422	0.0187028	0	14
	30	9.8399982	220	9.8585745	202	9.9814237	421	0.0185763	30	
47	0	9.8400642	219	9.8585141	202	9.9815501	422	0.0184499	0	13
	30	9.8401301	219	9.8584535	202	9.9816766	421	0.0183234	30	
48	0	9.8401959	220	9.8583929	201	9.9818030	421	0.0181970	0	12
	30	9.8402618	219	9.8583324	202	9.9819294	422	0.0180706	30	
49	0	9.8403276	220	9.8582718	202	9.9820559	421	0.0179441	0	11
	30	9.8403935	219	9.8582111	202	9.9821823	422	0.0178177	30	
50	0	9.8404593	219	9.8581505	202	9.9823087	422	0.0176913	0	10
	30	9.8405250	220	9.8580899	203	9.9824352	421	0.0175648	30	
51	0	9.8405908	219	9.8580292	202	9.9825616	422	0.0174384	0	9
	30	9.8406565	220	9.8579685	202	9.9826881	421	0.0173119	30	
52	0	9.8407223	219	9.8579078	202	9.9828145	421	0.0171855	0	8
	30	9.8407880	219	9.8578471	203	9.9829409	422	0.0170591	30	
53	0	9.8408537	219	9.8577863	202	9.9830673	422	0.0169327	0	7
	30	9.8409193	219	9.8577256	203	9.9831938	421	0.0168062	30	
54	0	9.8409850	219	9.8576648	203	9.9833202	421	0.0166798	0	6
	30	9.8410506	219	9.8576040	203	9.9834466	422	0.0165534	30	
55	0	9.8411162	219	9.8575432	203	9.9835730	422	0.0164270	0	5
	30	9.8411818	219	9.8574824	203	9.9836995	421	0.0163005	30	
56	0	9.8412474	218	9.8574215	203	9.9838259	421	0.0161741	0	4
	30	9.8413129	219	9.8573606	203	9.9839523	421	0.0160477	30	
57	0	9.8413785	218	9.8572998	203	9.9840787	421	0.0159213	0	3
	30	9.8414440	218	9.8572389	203	9.9842051	422	0.0157949	30	
58	0	9.8415095	218	9.8571779	203	9.9843315	422	0.0156685	0	2
	30	9.8415750	218	9.8571170	203	9.9844580	421	0.0155420	30	
59	0	9.8416404	218	9.8570561	204	9.9845844	421	0.0154156	0	1
	30	9.8417059	218	9.8569951	203	9.9847108	421	0.0152892	30	
60	0	9.8417713		9.8569341		9.9848372		0.0151628	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

″	′	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	′	″
0	0	9.8417713	218	9.8569341	203	9.9848372	421	0.0151628	0	60
	30	9.8418367	218	9.8568731	204	9.9849636	421	0.0150364	30	
1	0	9.8419021	217	9.8568121	204	9.9850900	421	0.0149100	0	59
	30	9.8419674	218	9.8567510	203	9.9852164	421	0.0147836	30	
2	0	9.8420328	217	9.8566900	204	9.9853428	481	0.0146572	0	58
	30	9.8420981	218	9.8566289	204	9.9854692	421	0.0145308	30	
3	0	9.8421634	218	9.8565678	204	9.9855956	421	0.0144044	0	57
	30	9.8422287	217	9.8565067	204	9.9857220	421	0.0142780	30	
4	0	9.8422939	218	9.8564455	203	9.9858484	421	0.0141516	0	56
	30	9.8423592	217	9.8563844	204	9.9859748	421	0.0140252	30	
5	0	9.8424244	218	9.8563232	204	9.9861012	421	0.0138988	0	55
	30	9.8424896	218	9.8562620	204	9.9862276	421	0.0137724	30	
6	0	9.8425548	217	9.8562008	204	9.9863540	421	0.0136460	0	54
	30	9.8426200	217	9.8561396	204	9.9864804	421	0.0135196	30	
7	0	9.8426851	218	9.8560784	204	9.9866068	421	0.0133932	0	53
	30	9.8427503	217	9.8560171	204	9.9867332	421	0.0132668	30	
8	0	9.8428154	217	9.8559558	204	9.9868596	421	0.0131404	0	52
	30	9.8428805	217	9.8558945	204	9.9869859	422	0.0130141	30	
9	0	9.8429456	217	9.8558332	204	9.9871123	422	0.0128877	0	51
	30	9.8430106	217	9.8557719	204	9.9872387	421	0.0127613	30	
10	0	9.8430757	216	9.8557106	205	9.9873651	421	0.0126349	0	50
	30	9.8431407	217	9.8556492	205	9.9874915	421	0.0125085	30	
11	0	9.8432057	217	9.8555878	204	9.9876179	421	0.0123821	0	49
	30	9.8432707	216	9.8555264	204	9.9877443	421	0.0122557	30	
12	0	9.8433356	217	9.8554650	205	9.9878706	422	0.0121294	0	48
	30	9.8434006	216	9.8554036	205	9.9879970	421	0.0120030	30	
13	0	9.8434655	216	9.8553421	205	9.9881234	421	0.0118766	0	47
	30	9.8435304	217	9.8552806	204	9.9882498	421	0.0117502	30	
14	0	9.8435953	216	9.8552192	205	9.9883761	422	0.0116239	0	46
	30	9.8436602	216	9.8551577	206	9.9885025	421	0.0114975	30	
15	0	9.8437250	216	9.8550961	205	9.9886289	421	0.0113711	0	45
	30	9.8437899	216	9.8550346	205	9.9887553	421	0.0112447	30	
16	0	9.8438547	216	9.8549730	205	9.9888816	422	0.0111184	0	44
	30	9.8439195	216	9.8549114	205	9.9890080	421	0.0109920	30	
17	0	9.8439842	216	9.8548499	206	9.9891344	421	0.0108656	0	43
	30	9.8440490	216	9.8547882	205	9.9892608	421	0.0107392	30	
18	0	9.8441137	216	9.8547266	205	9.9893871	422	0.0106129	0	42
	30	9.8441785	215	9.8546650	206	9.9895135	421	0.0104865	30	
19	0	9.8442432	215	9.8546033	206	9.9896399	421	0.0103601	0	41
	30	9.8443078	216	9.8545416	206	9.9897662	422	0.0102338	30	
20	0	9.8443725	215	9.8544799	206	9.9898926	421	0.0101074	0	40
	30	9.8444371	216	9.8544182	206	9.9900190	421	0.0099810	30	
21	0	9.8445018	215	9.8543564	205	9.9901453	421	0.0098547	0	39
	30	9.8445664	215	9.8542947	206	9.9902717	421	0.0097283	30	
22	0	9.8446310	215	9.8542329	206	9.9903981	421	0.0096019	0	38
	30	9.8446955	215	9.8541711	206	9.9905244	421	0.0094756	30	
23	0	9.8447601	215	9.8541093	206	9.9906508	421	0.0093492	0	37
	30	9.8448246	215	9.8540475	206	9.9907771	422	0.0092229	30	
24	0	9.8448891	215	9.8539856	206	9.9909035	421	0.0090965	0	36
	30	9.8449536	215	9.8539238	207	9.9910299	421	0.0089701	30	
25	0	9.8450181	215	9.8538619	207	9.9911562	421	0.0088438	0	35
	30	9.8450825	215	9.8538000	207	9.9912826	421	0.0087174	30	
26	0	9.8451470	215	9.8537381	207	9.9914089	421	0.0085911	0	34
	30	9.8452114	215	9.8536761	206	9.9915353	421	0.0084647	30	
27	0	9.8452758	215	9.8536142	207	9.9916616	422	0.0083384	0	33
	30	9.8453402	214	9.8535522	207	9.9917880	421	0.0082120	30	
28	0	9.8454045	215	9.8534902	207	9.9919143	422	0.0080857	0	32
	30	9.8454689	214	9.8534282	207	9.9920407	421	0.0079593	30	
29	0	9.8455332	214	9.8533662	207	9.9921670	422	0.0078330	0	31
	30	9.8455975	214	9.8533041	207	9.9922934	421	0.0077066	30	
30	0	9.8456618		9.8532421		9.9924197		0.0075803	0	30
″	′	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

′	″	l. sin.	dif. 10″	l. cosin.	d. 10″	l. tang.	dif. 10″	l. cotan.	″	′
30	0	9.8456618	214	9.8532421	207	9.9924197	422	0.0075803	0	30
	30	9.8457261	214	9.8531800	207	9.9925461	421	0.0074539	30	
31	0	9.8457903	214	9.8531179	207	9.9926724	422	0.0073276	0	29
	30	9.8458545	215	9.8530558	208	9.9927988	421	0.0072012	30	
32	0	9.8459188	214	9.8529936	207	9.9929251	422	0.0070749	0	28
	30	9.8459830	213	9.8529315	208	9.9930515	421	0.0069485	30	
33	0	9.8460471	214	9.8528693	207	9.9931778	422	0.0068222	0	27
	30	9.8461113	214	9.8528071	207	9.9933042	421	0.0066958	30	
34	0	9.8461754	214	9.8527449	207	9.9934305	421	0.0065695	0	26
	30	9.8462395	214	9.8526827	208	9.9935569	421	0.0064431	30	
35	0	9.8463036	214	9.8526204	207	9.9936832	421	0.0063168	0	25
	30	9.8463677	214	9.8525582	208	9.9938096	421	0.0061904	30	
36	0	9.8464318	213	9.8524959	208	9.9939359	421	0.0060641	0	24
	30	9.8464958	214	9.8524336	208	9.9940623	421	0.0059377	30	
37	0	9.8465599	213	9.8523713	208	9.9941886	421	0.0058114	0	23
	30	9.8466239	213	9.8523089	208	9.9943149	422	0.0056851	30	
38	0	9.8466879	213	9.8522466	208	9.9944413	421	0.0055587	0	22
	30	9.8467518	213	9.8521842	208	9.9945676	421	0.0054324	30	
39	0	9.8468158	213	9.8521218	208	9.9946940	421	0.0053060	0	21
	30	9.8468797	213	9.8520594	208	9.9948203	421	0.0051797	30	
40	0	9.8469436	213	9.8519970	208	9.9949466	422	0.0050534	0	20
	30	9.8470075	213	9.8519345	208	9.9950730	421	0.0049270	30	
41	0	9.8470714	213	9.8518721	208	9.9951993	421	0.0048007	0	19
	30	9.8471353	212	9.8518096	208	9.9953257	421	0.0046743	03	
42	0	9.8471991	213	9.8517471	208	9.9954520	421	0.0045480	0	18
	30	9.8472629	213	9.8516846	209	9.9955783	421	0.0044217	30	
43	0	9.8473267	213	9.8516220	208	9.9957047	421	0.0042953	0	17
	30	9.8473905	213	9.8515595	209	9.9958310	421	0.0041690	30	
44	0	9.8474543	212	9.8514969	208	9.9959573	422	0.0040427	0	16
	30	9.8475180	213	9.8514343	208	9.9960837	421	0.0039163	30	
45	0	9.8475817	213	9.8513717	208	9.9962100	421	0.0037900	0	15
	30	9.8476455	212	9.8513091	209	9.9963364	421	0.0036636	30	
46	0	9.8477091	213	9.8512465	209	9.9964627	421	0.0035373	0	14
	30	9.8477728	212	9.8511838	209	9.9965890	421	0.0034110	30	
47	0	9.8478365	212	9.8511211	209	9.9967154	421	0.0032846	0	13
	30	9.8479001	212	9.8510584	209	9.9968417	421	0.0031583	30	
48	0	9.8479637	212	9.8509957	209	9.9969680	421	0.0030320	0	12
	30	9.8480273	212	9.8509330	210	9.9970944	421	0.0029056	30	
49	0	9.8480909	212	9.8508702	209	9.9972207	421	0.0027793	0	11
	30	9.8481545	211	9.8508074	209	9.9973470	421	0.0026530	30	
50	0	9.8482180	212	9.8507446	209	9.9974734	421	0.0025266	0	10
	30	9.8482815	212	9.8506818	209	9.9975997	421	0.0024003	30	
51	0	9.8483450	212	9.8506190	209	9.9977260	421	0.0022740	0	9
	30	9.8484085	212	9.8505562	210	9.9978524	421	0.0021476	30	
52	0	9.8484720	211	9.8504933	210	9.9979787	421	0.0020213	0	8
	30	9.8485354	212	9.8504304	209	9.9981050	421	0.0018950	30	
53	0	9.8485989	211	9.8503675	209	9.9982314	421	0.0017686	0	7
	30	9.8486623	211	9.8503046	210	9.9983577	421	0.0016423	30	
54	0	9.8487257	211	9.8502417	210	9.9984840	421	0.0015160	0	6
	30	9.8487891	211	9.8501787	210	9.9986104	421	0.0013896	30	
55	0	9.8488524	211	9.8501157	210	9.9987367	421	0.0012633	0	5
	30	9.8489158	211	9.8500527	210	9.9988630	421	0.0011370	30	
56	0	9.8489791	211	9.8499897	210	9.9989893	422	0.0010107	0	4
	30	9.8490424	211	9.8499267	210	9.9991157	421	0.0008843	30	
57	0	9.8491057	211	9.8498637	211	9.9992420	421	0.0007580	0	3
	30	9.8491687	211	9.8498006	210	9.9993683	422	0.0006317	30	
58	0	9.8492322	211	9.8497375	210	9.9994947	421	0.0005053	0	2
	30	9.8492954	211	9.8496744	210	9.9996210	421	0.0003790	30	
59	0	9.8493586	211	9.8496113	210	9.9997473	421	0.0002527	0	1
	30	9.8494218	211	9.8495482	211	9.9998737	421	0.0001263	30	
60	0	9.8494850		9.8494850		0.0000000		0.0000000	0	0
′	″	l. cosin.	10″ dif.	l. sin.	10″ d.	l. cotan.	10″ dif.	l. tang.	″	′

SINUS NATURALES

AD TRICENAS SECUNDAS.

NATURAL SINES

TO EVERY THIRTY SECONDS.

SINUS NATURELS

DE TRENTE EN TRENTE SECONDES.

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ZU JE DREISSIG SECUNDEN.

SENOS NATURALES

PARA CADA 30″

0 deg.

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0000000	484,8	1,0000000	0,0	60′	30′	0,0087265	484,8	0,9999619	4,2	30′
3′	0,0001455		1,0000000		3′	3′	0,0088720		0,9999606	4,3	3′
1′	0,0002909		1,0000000	0,1	57′	31′	0,0090174		0,9999593	4,4	29′
3′	0,0004363		0,9999999	0,2	3′	3′	0,0091628		0,9999580		3′
2′	0,0005818		0,9999998	0,3	58′	32′	0,0093083		0,9999567		28′
3′	0,0007273		0,9999997		3′	3′	0,0094538		0,9999553	4,5	3′
3′	0,0008727		0,9999996	0,4	57′	33′	0,0095992		0,9999539	4,6	27′
3′	0,0010182		0,9999994	0,5	3′	3′	0,0097446		0,9999525	4,7	3′
4′	0,0011636		0,9999993	0,6	56′	34′	0,0098900		0,9999511	4,8	26′
3′	0,0013090		0,9999991		3′	3′	0,0100355		0,9999497		3′
5′	0,0014544		0,9999989	0,7	55′	35′	0,0101809		0,9999482	4,9	25′
3′	0,0015999		0,9999987	0,8	3′	3′	0,0103263		0,9999467	5,0	3′
6′	0,0017453		0,9999985	0,9	54′	36′	0,0104718		0,9999452	5,1	24′
3′	0,0018907		0,9999982		3′	3′	0,0106172		0,9999437		3′
7′	0,0020362		0,9999979	1,0	53′	37′	0,0107627		0,9999421		23′
3′	0,0021816		0,9999976		3′	3′	0,0109081		0,9999405	5,2	3′
8′	0,0023271		0,9999973	1,1	52′	38′	0,0110535		0,9999389	5,3	22′
3′	0,0024725		0,9999970	1,2	3′	3′	0,0111989		0,9999373	5,4	3′
9′	0,0026180		0,9999966	1,3	51′	39′	0,0113444		0,9999357	5,5	21′
3′	0,0027634		0,9999962		3′	3′	0,0114898		0,9999340		3′
10′	0,0029089		0,9999958	1,4	50′	40′	0,0116353		0,9999323	5,6	20′
3′	0,0030543		0,9999954	1,5	3′	3′	0,0117807		0,9999306	5,7	3′
11′	0,0031998		0,9999949	1,6	49′	41′	0,0119261		0,9999289	5,8	19′
3′	0,0033453		0,9999944		3′	3′	0,0120716		0,9999271		3′
12′	0,0034907		0,9999939	1,7	48′	42′	0,0122170		0,9999254	5,9	18′
3′	0,0036361		0,9999933		3′	3′	0,0123624		0,9999236	6,0	3′
13′	0,0037816		0,9999928	1,8	47′	43′	0,0125079		0,9999218	6,1	17′
3′	0,0039270		0,9999923	1,9	3′	3′	0,0126533		0,9999200		3′
14′	0,0040724		0,9999917	2,0	46′	44′	0,0127987		0,9999181	6,2	16′
3′	0,0042178		0,9999911		3′	3′	0,0129442		0,9999162	6,3	3′
15′	0,0043633		0,9999905	2,1	45′	45′	0,0130896		0,9999143	6,4	15′
3′	0,0045088		0,9999899	2,2	3′	3′	0,0132350		0,9999124		3′
16′	0,0046542		0,9999892	2,3	44′	46′	0,0133805		0,9999105	6,5	14′
3′	0,0047996		0,9999885		3′	3′	0,0135259		0,9999085		3′
17′	0,0049451		0,9999878	2,4	43′	47′	0,0136713		0,9999066	6,6	13′
3′	0,0050906		0,9999870		3′	3′	0,0138168		0,9999045	6,7	3′
18′	0,0052360		0,9999863	2,5	42′	48′	0,0139622		0,9999025	6,8	12′
3′	0,0053814		0,9999855	2,6	3′	3′	0,0141076		0,9999005		3′
19′	0,0055268		0,9999847	2,7	41′	49′	0,0142530		0,9998984	6,9	11′
3′	0,0056723		0,9999839		3′	3′	0,0143985		0,9998963	7,0	3′
20′	0,0058177		0,9999831	2,8	40′	50′	0,0145439		0,9998942	7,1	10′
3′	0,0059631		0,9999822	2,9	3′	3′	0,0146893		0,9998921		3′
21′	0,0061086		0,9999813	3,0	39′	51′	0,0148348	484,7	0,9998900	7,2	9′
3′	0,0062541		0,9999804		3′	3′	0,0149802		0,9998878		3′
22′	0,0063995		0,9999795		38′	52′	0,0151256		0,9998856	7,3	8′
3′	0,0065449		0,9999786	3,1	3′	3′	0,0152711		0,9998834	7,4	3′
23′	0,0066904		0,9999776	3,2	37′	53′	0,0154165		0,9998812	7,5	7′
3′	0,0068359		0,9999766	3,3	3′	3′	0,0155619		0,9998789		3′
24′	0,0069813		0,9999756	3,4	36′	54′	0,0157073		0,9998766	7,6	6′
3′	0,0071267		0,9999745		3′	3′	0,0158528		0,9998743	7,7	3′
25′	0,0072721		0,9999736	3,5	35′	55′	0,0159982		0,9998720	7,8	5′
3′	0,0074176		0,9999725	3,6	3′	3′	0,0161436		0,9998696		3′
26′	0,0075630		0,9999714	3,7	34′	56′	0,0162890		0,9998673	7,9	4′
3′	0,0077085		0,9999703		3′	3′	0,0164344		0,9998649		3′
27′	0,0078539		0,9999692		33′	57′	0,0165799		0,9998625	8,0	3′
3′	0,0079993		0,9999682	3,8	3′	3′	0,0167253		0,9998601	8,1	3′
28′	0,0081448		0,9999668	3,9	32′	58′	0,0168707		0,9998577	8,2	2′
3′	0,0082903		0,9999656	4,0	3′	3′	0,0170162		0,9998552		3′
29′	0,0084357		0,9999644	4,1	31′	59′	0,0171616		0,9998527	8,3	1′
3′	0,0085811		0,9999632		3′	3′	0,0173070		0,9998502	8,4	3′
30′	0,0087265	484,8	0,9999619		30′	60′	0,0174524	484,7	0,9998477		0′
	co-sin.	diff. 10″	sin.	dif. 10″			co-sin.	diff. 10″	sin.	dif. 10″	

89 deg.

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0174524	484,8	0,9998477	8,5	60′	30′	0,0261769	484,6	0,9996573	12,7	30′
38	0,0175978	484,7	0,9998451		38	38	0,0263223		0,9996536		38
1	0,0177432		0,9998426	8,6	59′	31′	0,0264677		0,9996497	12,8	29′
38	0,0178886		0,9998400		38	38	0,0266131		0,9996458		38
2′	0,0180341		0,9998374	8,7	58′	32′	0,0267585		0,9996419	12,9	28′
										13,0	
38	0,0181795		0,9998347	8,8	38	38	0,0269039		0,9996380		38
3′	0,0183249		0,9998321		57′	33′	0,0270493		0,9996341	13,1	27′
38	0,0184704		0,9998294	8,9	38	38	0,0271947		0,9996302		38
4′	0,0186158		0,9998267		56′	34′	0,0273401		0,9996262	13,2	26′
38	0,0187612		0,9998240	9,0	38	38	0,0274855		0,9996222	13,3	38
5′	0,0189066		0,9998213	9,1	55′	35′	0,0276309		0,9996182	13,4	25′
38	0,0190520		0,9998185	9,2	38	38	0,0277762		0,9996141		38
6′	0,0191974		0,9998157		54′	36′	0,0279216		0,9996101	13,5	24′
38	0,0193428		0,9998129	9,3	38	38	0,0280670		0,9996061		38
7′	0,0194883		0,9998101	9,4	53′	37′	0,0282124		0,9996020	13,6	23′
				9,5						13,7	
38	0,0196337		0,9998072		38	38	0,0283578		0,9995978		38
8′	0,0197791		0,9998044		52′	38′	0,0285032		0,9995937	13,8	22′
38	0,0199245		0,9998015	9,6	38	38	0,0286486		0,9995896		38
9′	0,0200699		0,9997986		51′	39′	0,0287940		0,9995854	13,9	21′
38	0,0202153		0,9997957	9,7	38	38	0,0289394		0,9995812	14,0	38
10′	0,0203608		0,9997927	9,8	50′	40′	0,0290847		0,9995770		20′
38	0,0205062		0,9997897	9,9	38	38	0,0292301		0,9995727	14,1	38
11′	0,0206516		0,9997867		49′	41′	0,0293755		0,9995684	14,2	19′
38	0,0207970		0,9997837	10,0	38	38	0,0295208		0,9995641	14,3	38
12′	0,0209424		0,9997807	10,1	48′	42′	0,0296662		0,9995599	14,4	18′
				10,2							
38	0,0210878		0,9997776		38	38	0,0298116		0,9995556		38
13′	0,0212332		0,9997745	10,1	47′	43′	0,0299570		0,9995512	14,5	17′
38	0,0213787		0,9997714	10,3	38	38	0,0301024		0,9995468	14,6	38
14′	0,0215241		0,9997683		46′	44′	0,0302478		0,9995424	14,7	16′
38	0,0216695		0,9997652	10,4	38	38	0,0303931		0,9995380		38
15′	0,0218149		0,9997620	10,5	45′	45′	0,0305385		0,9995336	14,8	15′
38	0,0219603		0,9997588	10,6	38	38	0,0306839		0,9995292	14,9	38
16′	0,0221057		0,9997556		44′	46′	0,0308293		0,9995247	15,0	14′
38	0,0222511		0,9997524	10,7	38	38	0,0309746		0,9995202		38
17′	0,0223965		0,9997492	10,8	43′	47′	0,0311200		0,9995157	15,1	13′
38	0,0225419		0,9997459	10,9	38	38	0,0312654		0,9995111		38
18′	0,0226873		0,9997426		42′	48′	0,0314108		0,9995066	15,2	12′
38	0,0228327		0,9997393	11,0	38	38	0,0315562		0,9995020	15,3	38
19′	0,0229781		0,9997360		41′	49′	0,0317015		0,9994974	15,4	11′
38	0,0231235		0,9997326	11,1	38	38	0,0318468		0,9994927		38
20′	0,0232690		0,9997292	11,2	40′	50′	0,0319922		0,9994881	15,5	10′
38	0,0234144		0,9997258	11,3	38	38	0,0321376	484,6	0,9994835	15,6	38
21′	0,0235598		0,9997224		39′	51′	0,0322830	484,5	0,9994788	15,7	9′
38	0,0237052		0,9997190	11,4	38	38	0,0324283		0,9994740		38
22′	0,0238506		0,9997155	11,5	38′	52′	0,0325737		0,9994693	15,8	8′
				11,6							
38	0,0239960		0,9997120		38	38	0,0327191		0,9994646		38
23′	0,0241414		0,9997086		37′	53′	0,0328644		0,9994598	15,9	7′
38	0,0242868		0,9997051	11,7	38	38	0,0330098		0,9994550	16,0	38
24′	0,0244322		0,9997015	11,8	36′	54′	0,0331552		0,9994502	16,1	6′
38	0,0245776		0,9996979	11,9	38	38	0,0333005		0,9994453		38
25′	0,0247230		0,9996943		35′	55′	0,0334459		0,9994405	16,2	5′
38	0,0248684	484,7	0,9996907	12,0	38	38	0,0335913		0,9994357	16,3	38
26′	0,0250138	484,6	0,9996871		34′	56′	0,0337366		0,9994308	16,4	4′
38	0,0251592		0,9996834	12,1	38	38	0,0338820		0,9994258		38
27′	0,0253046		0,9996798		33′	57′	0,0340274		0,9994209	16,5	3′
				12,3							
38	0,0254500		0,9996761		38	38	0,0341727		0,9994160		38
28′	0,0255954		0,9996724		32′	58′	0,0343181		0,9994110	16,6	2′
38	0,0257408		0,9996687	12,4	38	38	0,0344635		0,9994060	16,7	38
29′	0,0258862		0,9996649		31′	59′	0,0346088		0,9994009	16,8	1′
38	0,0260316		0,9996611	12,6	38	38	0,0347541		0,9993958		38
30′	0,0261769	484,6	0,9996573		30′	60′	0,0348995	484,5	0,9993908		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10′			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0348995	484,5	0,9993908	16,9	60′	30′	0,0436194	484,3	0,9990482	21,2	30′
38	0,0350448		0,9993805	17,0	38	38	0,0437647		0,9990418		38
1′	0,0351902		0,9993805	17,1	59′	31′	0,0439100		0,9990356	21,3	29′
38	0,0353356		0,9993755		38	38	0,0440553		0,9990291		38
2′	0,0354809		0,9993704		58′	32′	0,0442006		0,9990227		28′
38	0,0356263		0,9993652	17,2	38	38	0,0443459		0,9990163	21,4	38
3′	0,0357716		0,9993600	17,3	57′	33′	0,0444912		0,9990098	21,5	27′
38	0,0359170		0,9993547	17,4	38	38	0,0446365		0,9990033	21,6	38
4′	0,0360623		0,9993495	17,5	56′	34′	0,0447818		0,9989968	21,7	26′
38	0,0362076		0,9993442		38	38	0,0449271		0,9989903		38
5′	0,0363530		0,9993390	17,6	55′	35′	0,0450724		0,9989837	21,8	25′
38	0,0364983		0,9993337	17,7	38	38	0,0452177		0,9989771	21,9	38
6′	0,0366437		0,9993284	17,8	54′	36′	0,0453630		0,9989706	22,0	24′
38	0,0367891		0,9993230	17,7	38	38	0,0455083		0,9989639		38
7′	0,0369344		0,9993177	17,9	53′	37′	0,0456536		0,9989573		23′
38	0,0370797		0,9993123	18,0	38	38	0,0457989		0,9989507	22,1	38
8′	0,0372251		0,9993069	18,1	52′	38′	0,0459442		0,9989440	22,2	22′
38	0,0373705		0,9993014		38	38	0,0460895		0,9989373	22,3	38
9′	0,0375158		0,9992960	18,2	51′	39′	0,0462347		0,9989306	22,4	21′
38	0,0376611		0,9992906		38	38	0,0463800		0,9989239	22,5	38
10′	0,0378065		0,9992851	18,3	50′	40′	0,0465253		0,9989171	22,6	20′
38	0,0379518	484,4	0,9992796	18,4	38	38	0,0466706		0,9989103		38
11′	0,0380971		0,9992740	18,5	49′	41′	0,0468159		0,9989035	22,7	19′
38	0,0382424		0,9992684		38	38	0,0469612		0,9988967		38
12′	0,0383878		0,9992629		48′	42′	0,0471065		0,9988899		18′
38	0,0385332		0,9992573	18,6	38	38	0,0472517		0,9988830	22,8	38
13′	0,0386785		0,9992517	18,7	47′	43′	0,0473970		0,9988761	22,9	17′
38	0,0388239		0,9992460	18,8	38	38	0,0475423		0,9988692	23,0	38
14′	0,0389692		0,9992404	18,9	46′	44′	0,0476876	484,2	0,9988623	23,1	16′
38	0,0391145		0,9992347		38	38	0,0478329		0,9988554	23,2	38
15′	0,0392598		0,9992290	19,0	45′	45′	0,0479781		0,9988484	23,3	15′
38	0,0394052		0,9992233	19,1	38	38	0,0481234		0,9988414		38
16′	0,0395505		0,9992176	19,2	44′	46′	0,0482687		0,9988344	23,4	14′
38	0,0396958		0,9992118		38	38	0,0484139		0,9988274	23,5	38
17′	0,0398411		0,9992060	19,3	43′	47′	0,0485592		0,9988203	23,6	13′
38	0,0399864		0,9992002	19,4	38	38	0,0487045		0,9988132		38
18′	0,0401318		0,9991944	19,5	42′	48′	0,0488498		0,9988061	23,7	12′
38	0,0402771		0,9991885		38	38	0,0489951		0,9987990		38
19′	0,0404224		0,9991827	19,6	41′	49′	0,0491403		0,9987919	23,8	11′
38	0,0405678		0,9991768		38	38	0,0492855		0,9987847	23,9	38
20′	0,0407131		0,9991709	19,7	40′	50′	0,0494308		0,9987775	24,0	10′
38	0,0408584		0,9991650	19,8	38	38	0,0495761		0,9987703		38
21′	0,0410037		0,9991590	19,9	39′	51′	0,0497214		0,9987631	24,1	9′
38	0,0411490		0,9991530		38	38	0,0498667		0,9987559	24,2	38
22′	0,0412944		0,9991470	20,0	38′	52′	0,0500119		0,9987486	24,3	8′
38	0,0414397		0,9991410	20,1	38	38	0,0501572		0,9987413		38
23′	0,0415850		0,9991350	20,2	37′	53′	0,0503024		0,9987340	24,4	7′
38	0,0417304		0,9991289		38	38	0,0504476		0,9987267		38
24′	0,0418757		0,9991228	20,3	36′	54′	0,0505929		0,9987194	24,5	6′
38	0,0420210		0,9991167	20,4	38	38	0,0507382		0,9987120	24,6	38
25′	0,0421663		0,9991106	20,5	35′	55′	0,0508835		0,9987046	24,7	5′
38	0,0423116		0,9991045		38	38	0,0510288		0,9986972		38
26′	0,0424569		0,9990983	20,6	34′	56′	0,0511740		0,9986898	24,8	4′
38	0,0426022		0,9990921		38	38	0,0513192		0,9986823	24,9	38
27′	0,0427475		0,9990859	20,7	33′	57′	0,0514645		0,9986748	25,0	3′
38	0,0428929		0,9990797	20,8	38	38	0,0516098		0,9986673		38
28′	0,0430382		0,9990734	20,9	32′	58′	0,0517550		0,9986598	25,1	2′
38	0,0431835		0,9990672		38	38	0,0519003	484,1	0,9986522		38
29′	0,0433288		0,9990609	21,0	31′	59′	0,0520455		0,9986447	25,2	1′
38	0,0434741		0,9990546		38	38	0,0521907		0,9986371		38
30′	0,0436194	484,4	0,9990482	21,1	30′	60′	0,0523360		0,9986295	25,3	0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0523360	484,1	0,9986295	25,4	60′	30′	0,0610485	483,9	0,9981348	29,6	30′
3″	0,0524812		0,9986219		3″	3″	0,0611937		0,9981259		3″
1′	0,0526264		0,9986143	25,5	59′	31′	0,0613389		0,9981170	29,7	29′
3″	0,0527716		0,9986066	25,6	3″	3″	0,0614841		0,9981081	29,8	3″
2′	0,0529169		0,9985989	25,7	58′	32′	0,0616292		0,9980991		28′
3″	0,0530622		0,9985912		3″	3″	0,0617744		0,9980901	29,9	3″
3′	0,0532074		0,9985835	25,8	57′	33′	0,0619196		0,9980811	30,0	27′
3″	0,0533526		0,9985758		3″	3″	0,0620648		0,9980721	30,1	3″
4′	0,0534979		0,9985680	25,9	56′	34′	0,0622099		0,9980631	30,2	26′
3″	0,0536431		0,9985602		3″	3″	0,0623550		0,9980540		3″
5′	0,0537883		0,9985524	26,0	55′	35′	0,0625002		0,9980450	30,3	25′
3″	0,0539336		0,9985445	26,1	3″	3″	0,0626454		0,9980359	30,4	3″
6′	0,0540788		0,9985367	26,2	54′	36′	0,0627905	483,8	0,9980267	30,5	24′
3″	0,0542241		0,9985288	26,3	3″	3″	0,0629356		0,9980175		3″
7′	0,0543693		0,9985209	26,4	53′	37′	0,0630808		0,9980084		23′
3″	0,0545145		0,9985130		3″	3″	0,0632260		0,9979992	30,6	3″
8′	0,0546597		0,9985050	26,5	52′	38′	0,0633711		0,9979900	30,7	22′
3″	0,0548049		0,9984971		3″	3″	0,0635163		0,9979808	30,8	3″
9′	0,0549502		0,9984891	26,6	51′	39′	0,0636614		0,9979715	30,9	21′
3″	0,0550954		0,9984811	26,7	3″	3″	0,0638065		0,9979623		3″
10′	0,0552406		0,9984731	26,8	50′	40′	0,0639517		0,9979530	31,0	20′
3″	0,0553859		0,9984650		3″	3″	0,0640969		0,9979437	31,1	3″
11′	0,0555311		0,9984570	26,9	49′	41′	0,0642420		0,9979343	31,2	19′
3″	0,0556763		0,9984489	27,0	3″	3″	0,0643871		0,9979249		3″
12′	0,0558215		0,9984408	27,1	48′	42′	0,0645323		0,9979156	31,3	18′
3″	0,0559667	484,0	0,9984326		3″	3″	0,0646775		0,9979062		3″
13′	0,0561119		0,9984245	27,2	47′	43′	0,0648226		0,9978968	31,4	17′
3″	0,0562572		0,9984163	27,3	3″	3″	0,0649678		0,9978874	31,5	3″
14′	0,0564024		0,9984081	27,4	46′	44′	0,0651129		0,9978779	31,6	16′
3″	0,0565476		0,9983999		3″	3″	0,0652580		0,9978684		3″
15′	0,0566928		0,9983917	27,5	45′	45′	0,0654031		0,9978589	31,7	15′
3″	0,0568380		0,9983834		3″	3″	0,0655482		0,9978494	31,8	3″
16′	0,0569832		0,9983751	27,6	44′	46′	0,0656934		0,9978399	31,9	14′
3″	0,0571284		0,9983668	27,7	3″	3″	0,0658385		0,9978303		3″
17′	0,0572736		0,9983585	27,8	43′	47′	0,0659836	483,7	0,9978207	32,0	13′
3″	0,0574188		0,9983501		3″	3″	0,0661288		0,9978111		3″
18′	0,0575640		0,9983418	27,9	42′	48′	0,0662739		0,9978015	32,1	12′
3″	0,0577092		0,9983334	28,0	3″	3″	0,0664190		0,9977918	32,2	3″
19′	0,0578544		0,9983250	28,1	41′	49′	0,0665641		0,9977821	32,3	11′
3″	0,0579996		0,9983166		3″	3″	0,0667093		0,9977724		3″
20′	0,0581448		0,9983082	28,2	40′	50′	0,0668544		0,9977627	32,4	10′
3″	0,0582900		0,9982997	28,3	3″	3″	0,0669995		0,9977530	32,5	3″
21′	0,0584352		0,9982912		39′	51′	0,0671446		0,9977433	32,6	9′
3″	0,0585804		0,9982827	28,4	3″	3″	0,0672898		0,9977335		3″
22′	0,0587256		0,9982742	28,5	38′	52′	0,0674349		0,9977237		8′
3″	0,0588708		0,9982656		3″	3″	0,0675800		0,9977138	32,7	3″
23′	0,0590160		0,9982570	28,6	37′	53′	0,0677251		0,9977040	32,8	7′
3″	0,0591612		0,9982484	28,7	3″	3″	0,0678702		0,9976942	32,9	3″
24′	0,0593064		0,9982398	28,8	36′	54′	0,0680153		0,9976843	33,0	6′
3″	0,0594516	483,9	0,9982312		3″	3″	0,0681604		0,9976744		3″
25′	0,0595967		0,9982225	28,9	35′	55′	0,0683055		0,9976645	33,1	5′
3″	0,0597419		0,9982138		3″	3″	0,0684506		0,9976545	33,2	3″
26′	0,0598871		0,9982052	29,0	34′	56′	0,0685957		0,9976445	33,3	4′
3″	0,0600323		0,9981965	29,1	3″	3″	0,0687408		0,9976345		3″
27′	0,0601775		0,9981877	29,2	33′	57′	0,0688859	483,6	0,9976245	33,4	3′
3″	0,0603226		0,9981789		3″	3″	0,0690310		0,9976145		3″
28′	0,0604678		0,9981701	29,3	32′	58′	0,0691761		0,9976045	33,5	2′
3″	0,0606130		0,9981613	29,4	3″	3″	0,0693212		0,9975944	33,6	3″
29′	0,0607582		0,9981525	29,5	31′	59′	0,0694663		0,9975843	33,7	1′
3″	0,0609034		0,9981436		3″	3″	0,0696114		0,9975742		3″
30′	0,0610485	483,9	0,9981348		30′	60′	0,0697565	483,6	0,9975641		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0677565	483,6	0,9975641	33,8	60′	30′	0,0754591	483,3	0,9969173	38,0	30′
3″	0,0679016		0,9975539	33,9	3″	3″	0,0756041		0,9969059	38,1	3″
1′	0,0680457		0,9975437	34,0	59′	31′	0,0757491		0,9968945	38,2	29′
3″	0,0681918		0,9975335		3″	3″	0,0758941		0,9968830		3″
2′	0,0683368		0,9975233	34,1	58′	32′	0,0760391		0,9968715	38,3	28′
3″	0,0684819		0,9975131		3″	3″	0,0761841		0,9968600		3″
3′	0,0686270		0,9975028	34,2	57′	33′	0,0763290		0,9968485	38,4	27′
3″	0,0687720		0,9974925	34,3	3″	3″	0,0764740		0,9968369	38,5	3″
4′	0,0689171		0,9974822		56′	34′	0,0766190		0,9968254		26′
3″	0,0690622		0,9974718	34,4	3″	3″	0,0767640		0,9968138	38,6	3″
5′	0,0692073		0,9974615		55′	35′	0,0769090	483,2	0,9968022		25′
3″	0,0693524		0,9974512	34,5	3″	3″	0,0770539		0,9967906	38,7	3″
6′	0,0694974		0,9974408	34,6	54′	36′	0,0771989		0,9967789	38,8	24′
3″	0,0696425		0,9974304	34,7	3″	3″	0,0773439		0,9967672	38,9	3″
7′	0,0697876	483,5	0,9974199	34,8	53′	37′	0,0774889		0,9967555	39,0	23′
3″	0,0699326		0,9974095		3″	3″	0,0776339		0,9967438		3″
8′	0,0700777		0,9973990	34,9	52′	38′	0,0777788		0,9967321	39,1	22′
3″	0,0702228		0,9973885	35,0	3″	3″	0,0779238		0,9967203	39,2	3″
9′	0,0703678		0,9973780	35,1	51′	39′	0,0780687		0,9967085	39,3	21′
3″	0,0705129		0,9973674		3″	3″	0,0782137		0,9966967	39,4	3″
10′	0,0706580		0,9973569	35,2	50′	40′	0,0783587		0,9966849		20′
3″	0,0708030		0,9973463	35,3	3″	3″	0,0785036		0,9966731	39,5	3″
11′	0,0709481		0,9973357		49′	41′	0,0786486		0,9966612		19′
3″	0,0710932		0,9973251	35,4	3″	3″	0,0787936		0,9966493	39,6	3″
12′	0,0712382		0,9973145	35,5	48′	42′	0,0789385		0,9966374		18′
3″	0,0713833		0,9973038	35,6	3″	3″	0,0790835		0,9966255	39,7	3″
13′	0,0715283		0,9972931	35,7	47′	43′	0,0792284		0,9966135	39,8	17′
3″	0,0716733		0,9972824		3″	3″	0,0793733		0,9966015	39,9	3″
14′	0,0718184		0,9972717	35,8	46′	44′	0,0795183	483,1	0,9965895	40,0	16′
3″	0,0719635		0,9972609		3″	3″	0,0796633		0,9965775	40,1	3″
15′	0,0721085		0,9972502	35,9	45′	45′	0,0798082		0,9965655		15′
3″	0,0722536		0,9972394	36,0	3″	3″	0,0799532		0,9965535	40,2	3″
16′	0,0723986		0,9972286		44′	46′	0,0800981		0,9965414		14′
3″	0,0725436		0,9972178	36,1	3″	3″	0,0802430		0,9965293	40,3	3″
17′	0,0726887	483,4	0,9972069		43′	47′	0,0803880		0,9965172		13′
3″	0,0728337		0,9971960	36,2	3″	3″	0,0805329		0,9965051	40,4	3″
18′	0,0729787		0,9971851	36,3	42′	48′	0,0806778		0,9964929	40,5	12′
3″	0,0731238		0,9971742	36,4	3″	3″	0,0808228		0,9964807	40,6	3″
19′	0,0732688		0,9971633		41′	49′	0,0809677		0,9964685		11′
3″	0,0734138		0,9971523	36,5	3″	3″	0,0811126		0,9964563	40,7	3″
20′	0,0735589		0,9971413	36,6	40′	50′	0,0812576		0,9964440	40,8	10′
3″	0,0737039		0,9971303	36,7	3″	3″	0,0814025		0,9964318	40,9	3″
21′	0,0738489		0,9971193	36,8	39′	51′	0,0815474		0,9964195		9′
3″	0,0739939		0,9971083		3″	3″	0,0816924		0,9964072	41,0	3″
22′	0,0741390		0,9970972	36,9	38′	52′	0,0818373	483,0	0,9963948	41,1	8′
3″	0,0742840		0,9970861		3″	3″	0,0819822		0,9963824		3″
23′	0,0744290		0,9970750	37,0	37′	53′	0,0821271		0,9963701	41,2	7′
3″	0,0745740		0,9970639	37,1	3″	3″	0,0822720		0,9963577	41,3	3″
24′	0,0747190		0,9970528		36′	54′	0,0824169		0,9963453		6′
3″	0,0748641		0,9970416	37,2	3″	3″	0,0825618		0,9963329	41,4	3″
25′	0,0750091		0,9970304		35′	55′	0,0827067		0,9963204	41,5	5′
3″	0,0751541		0,9970192	37,3	3″	3″	0,0828517		0,9963079	41,6	3″
26′	0,0752991	483,3	0,9970080	37,4	34′	56′	0,0829965		0,9962954		4′
3″	0,0754441		0,9969967	37,5	3″	3″	0,0831415		0,9962829	41,7	3″
27′	0,0755891		0,9969854		33′	57′	0,0832864		0,9962704		3′
3″	0,0757341		0,9969741	37,6	3″	3″	0,0834313		0,9962578	41,8	3″
28′	0,0758791		0,9969628	37,7	32′	58′	0,0835762		0,9962452	41,9	2′
3″	0,0760241		0,9969515	37,8	3″	3″	0,0837211		0,9962326	42,0	3″
29′	0,0761691		0,9969401		31′	59′	0,0838660		0,9962200		1′
3″	0,0763141		0,9969287	37,9	3″	3″	0,0840109	483,0	0,9962074	42,1	3″
30′	0,0764591		0,9969173		30′	60′	0,0841557		0,9961947	42,2	0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,0871557	483,0	0,9961947	42,3	60′	30′	0,0958458	482,6	0,9953962	46,5	30′
3′	0,0873006		0,9961820		3′	3′	0,0959905		0,9953822		3′
1′	0,0874456	482,9	0,9961693	42,4	59′	31′	0,0961353		0,9953683	46,6	30′
3′	0,0875904		0,9961566		3′	3′	0,0962801		0,9953543	46,7	3′
2′	0,0877353		0,9961438	42,5	58′	32′	0,0964248		0,9953403	46,8	29′
3′	0,0878802		0,9961311		3′	3′	0,0965696	482,5	0,9953263		3′
3′	0,0880251		0,9961183	42,6	57′	33′	0,0967144		0,9953122	46,9	27′
3′	0,0881699		0,9961054	42,7	3′	3′	0,0968591		0,9952981		3′
4′	0,0883148		0,9960926		56′	34′	0,0970039		0,9952840	47,0	26′
3′	0,0884597		0,9960798	42,8	3′	3′	0,0971487		0,9952699	47,1	3′
5′	0,0886046		0,9960669	42,9	55′	35′	0,0972934		0,9952557	47,2	25′
3′	0,0887495		0,9960540	43,0	3′	3′	0,0974382		0,9952415		3′
6′	0,0888943		0,9960411		54′	36′	0,0975829		0,9952274	47,3	24′
3′	0,0890392		0,9960281	43,1	3′	3′	0,0977276		0,9952132	47,4	3′
7′	0,0891840		0,9960152	43,2	53′	37′	0,0978724		0,9991990	47,5	23′
3′	0,0893289		0,9960022	43,3	3′	3′	0,0980172		0,9951848		3′
8′	0,0894738		0,9959892	43,4	52′	38′	0,0981619		0,9951705	47,6	22′
3′	0,0896187		0,9959762		3′	3′	0,0983066		0,9951562		3′
9′	0,0897635	482,8	0,9959631	43,5	51′	39′	0,0984514	482,4	0,9951419	47,7	21′
3′	0,0899084		0,9959501	43,6	3′	3′	0,0985961		0,9951275	47,8	3′
10′	0,0900532		0,9959370	43,7	50′	40′	0,0987408		0,9951132		20′
3′	0,0901981		0,9959238		3′	3′	0,0988856		0,9950988	47,9	3′
11′	0,0903429		0,9959107	43,8	49′	41′	0,0990303		0,9950844	48,0	19′
3′	0,0904878		0,9958975		3′	3′	0,0991750		0,9950700	48,1	3′
12′	0,0906326		0,9958844	43,9	48′	42′	0,0993197		0,9950556	48,2	18′
3′	0,0907774		0,9958712	44,0	3′	3′	0,0994645		0,9950411		3′
13′	0,0909223		0,9958580	44,1	47′	43′	0,0996092		0,9950266	48,3	17′
3′	0,0910671		0,9958448		3′	3′	0,0997539		0,9950121		3′
14′	0,0912119		0,9958315	44,2	46′	44′	0,0998986		0,9949976	48,4	16′
3′	0,0913568		0,9958182	44,3	3′	3′	0,1000434		0,9949831	48,5	3′
15′	0,0915016		0,9958049	44,4	45′	45′	0,1001881		0,9949685	48,6	15′
3′	0,0916464		0,9957916		3′	3′	0,1003328		0,9949539		3′
16′	0,0917913	482,7	0,9957783	44,5	44′	46′	0,1004775	482,3	0,9949393	48,7	14′
3′	0,0919361		0,9957649	44,6	3′	3′	0,1006222		0,9949247	48,8	3′
17′	0,0920809		0,9957515	44,7	43′	47′	0,1007669		0,9949101	48,9	13′
3′	0,0922257		0,9957381		3′	3′	0,1009116		0,9948954		3′
18′	0,0923706		0,9957247		42′	48′	0,1010563		0,9948807	49,0	12′
3′	0,0925154		0,9957112	44,8	3′	3′	0,1012010		0,9948660		3′
19′	0,0926602		0,9956978		41′	49′	0,1013457		0,9948513	49,1	11′
3′	0,0928051		0,9956843	44,9	3′	3′	0,1014904		0,9948365	49,2	3′
20′	0,0929499		0,9956708	45,0	40′	50′	0,1016351		0,9948217	49,3	10′
3′	0,0930947		0,9956573	45,1	3′	3′	0,1017798		0,9948069		3′
21′	0,0932395		0,9956437		39′	51′	0,1019245		0,9947921	49,4	9′
3′	0,0933843		0,9956301	45,2	3′	3′	0,1020692		0,9947773	49,5	3′
22′	0,0935291		0,9956165	45,3	38′	52′	0,1022138		0,9947625	49,6	8′
3′	0,0936739		0,9956028	45,4	3′	3′	0,1023585		0,9947476		3′
23′	0,0938187		0,9955892		37′	53′	0,1025032		0,9947327	49,7	7′
3′	0,0939635	48,6	0,9955755	45,5	3′	3′	0,1026479	482,2	0,9947178		3′
24′	0,0941083		0,9955620		36′	54′	0,1027925		0,9947028	49,8	6′
3′	0,0942531	482,6	0,9955483	45,6	3′	3′	0,1029372		0,9946879	49,9	3′
25′	0,0943979		0,9955345	45,7	35′	55′	0,1030819		0,9946729		5′
3′	0,0945427		0,9955208	45,8	3′	3′	0,1032266		0,9946578	50,0	3′
26′	0,0946875		0,9955070		34′	56′	0,1033712		0,9946428		4′
3′	0,0948323		0,9954932	45,9	3′	3′	0,1035158		0,9946278	50,1	3′
27′	0,0949771		0,9954794	46,0	33′	57′	0,1036605		0,9946127	50,2	3′
3′	0,0951218		0,9954655	46,1	3′	3′	0,1038052		0,9945976	50,3	3′
28′	0,0952666		0,9954517		32′	58′	0,1039499		0,9945825		2′
3′	0,0954114		0,9954379	46,2	3′	3′	0,1040946		0,9945674	50,4	3′
29′	0,0955562		0,9954240		31′	59′	0,1042392		0,9945523		1′
3′	0,0957010		0,9954101	46,3	3′	3′	0,1043838		0,9945371	50,5	3′
30′	0,0958458	482,6	0,9953962	46,4	30′	60′	0,1045285	482,2	0,9945219	50,6	0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,1045285	482,2	0,9945219	50,7	60′	30′	0,1130302	481,7	0,9935719	55,0	30′
30	0,1046732	482,1	0,9945066		30	30	0,1133477		0,9935554	55,1	30
1	0,1048178	482,0	0,9944914	50,8	59′	31′	0,1134922		0,9935387	55,2	29′
30	0,1049624	482,1	0,9944712		30	30	0,1136367		0,9935224		30
2′	0,1051070	482,2	0,9944609	50,9	58′	32′	0,1137812		0,9935058		28′
30	0,1052517		0,9944456	51,1	30	30	0,1139257		0,9934892		30
3′	0,1053963		0,9944303	51,2	57′	33′	0,1140702		0,9934727	55,3	27′
30	0,1055410	482,1	0,9944149		30	30	0,1142147		0,9934561	55,4	30
4′	0,1056856	482,0	0,9943996	51,3	56′	34′	0,1143592	481,7	0,9934395	55,5	26′
30	0,1058302		0,9943842	51,4	30	30	0,1145037	481,6	0,9934229	55,6	30
5′	0,1059748	482,1	0,9943688	51,5	55′	35′	0,1146482	481,5	0,9934062	55,7	25′
30	0,1061195	482,2	0,9943534	51,6	30	30	0,1147927	481,6	0,9933895		30
6′	0,1062641	482,1	0,9943379	51,7	54′	36′	0,1149372	481,7	0,9933728	55,8	24′
30	0,1064087	482,0	0,9943224		30	30	0,1150816		0,9933561	55,9	30
7′	0,1065533		0,9943070		53′	37′	0,1152261		0,9933393	56,0	23′
30	0,1066979	482,1	0,9942915	51,8	30	30	0,1153706		0,9933225	56,1	30
8′	0,1068425	482,2	0,9942760		52′	38′	0,1155151	481,5	0,9933057	56,2	22′
30	0,1069872	482,1	0,9942604	51,9	30	30	0,1156596		0,9932889		30
9′	0,1071318	482,0	0,9942448	52,0	51′	39′	0,1158040		0,9932721		21′
30	0,1072764		0,9942292	52,1	30	30	0,1159484		0,9932552		30
10′	0,1074210		0,9942136	52,2	50′	40′	0,1160929		0,9932384	56,3	20′
30	0,1075656		0,9941980		30	30	0,1162374		0,9932215	56,4	30
11′	0,1077102		0,9941823	52,3	49′	41′	0,1163818		0,9932046	56,5	19′
30	0,1078548	481,9	0,9941667	52,4	30	30	0,1165263		0,9931876	56,6	30
12′	0,1079994	481,8	0,9941510	52,5	48′	42′	0,1166707		0,9931706	56,7	18′
30	0,1081439	481,9	0,9941353		30	30	0,1168151		0,9931537		30
13′	0,1082885	482,0	0,9941196	52,5	47′	43′	0,1169596		0,9931367	56,8	17′
30	0,1084331		0,9941038	52,6	30	30	0,1171041		0,9931196		30
14′	0,1085777		0,9940880	52,7	46′	44′	0,1172485		0,9931026		16′
30	0,1087223	481,9	0,9940722		30	30	0,1173930		0,9930856	56,9	30
15′	0,1088669	481,8	0,9940563	52,8	45′	45′	0,1175374		0,9930685	57,0	15′
30	0,1090114	481,9	0,9940405	52,9	30	30	0,1176819	481,4	0,9930514	57,1	30
16′	0,1091560	482,0	0,9940246	53,0	44′	46′	0,1178263	481,3	0,9930342	57,2	14′
30	0,1093006	481,9	0,9940087	53,1	30	30	0,1179707	481,4	0,9930170		30
17′	0,1094452		0,9939928	53,2	43′	47′	0,1181151	481,3	0,9929999	57,3	13′
30	0,1095897	481,8	0,9939769		30	30	0,1182595	481,4	0,9929827	57,4	30
18′	0,1097343		0,9939610	53,3	42′	48′	0,1184040	481,5	0,9929655	57,5	12′
30	0,1098788	481,9	0,9939450		30	30	0,1185485	481,4	0,9929483	57,6	30
19′	0,1100234	482,0	0,9939290		41′	49′	0,1186929	481,3	0,9929310	57,7	11′
30	0,1101680	481,9	0,9939130	53,4	30	30	0,1188372		0,9929138		30
20′	0,1103125	481,8	0,9938969	53,5	40′	50′	0,1189816		0,9928965	57,8	10′
30	0,1104572		0,9938809	53,6	30	30	0,1191260	481,4	0,9928791		30
21′	0,1106017		0,9938648	53,7	39′	51′	0,1192704	481,5	0,9928618		9′
30	0,1107462		0,9938487		30	30	0,1194149	481,4	0,9928445	57,9	30
22′	0,1108908		0,9938326	53,8	38′	52′	0,1195593	481,3	0,9928271	58,0	8′
30	0,1110354		0,9938165	53,9	30	30	0,1197037		0,9928097	58,1	30
23′	0,1111799		0,9938003	54,0	37′	53′	0,1198481	481,2	0,9927922	58,2	7′
30	0,1113244	481,7	0,9937841	54,1	30	30	0,1199925		0,9927748		30
24′	0,1114689	481,8	0,9937679	54,2	36′	54′	0,1201368	481,3	0,9927573	58,3	6′
30	0,1116134		0,9937517		30	30	0,1202812		0,9927399	58,4	30
25′	0,1117580		0,9937355	54,3	35′	55′	0,1204256		0,9927224		5′
30	0,1119026		0,9937192		30	30	0,1205700	481,2	0,9927048		30
26′	0,1120471	481,7	0,9937029	54,4	34′	56′	0,1207144		0,9926873	58,5	4′
30	0,1121916		0,9936866		30	30	0,1208588		0,9926698	58,6	30
27′	0,1123361		0,9936703	54,5	33′	57′	0,1210031	481,3	0,9926521	58,7	3′
30	0,1124807	481,8	0,9936539	54,6	30	30	0,1211475		0,9926345		30
28′	0,1126252	481,7	0,9936376	54,7	32′	58′	0,1212919	481,2	0,9926169	58,8	2′
30	0,1127697		0,9936211		30	30	0,1214362		0,9925993	58,9	30
29′	0,1129142		0,9936047	54,8	31′	59′	0,1215806		0,9925816	59,0	1′
30	0,1130587		0,9935883		30	30	0,1217250		0,9925639		30
30′	0,1132032	481,7	0,9935719	54,9	30′	60′	0,1218693		0,9925462	59,1	0′
	co-sin.	diff. 10″	sin.	dif. 10″			co-sin.	diff. 10″	sin.	dif. 10″	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,1218693	481,3	0,9925462	59,2	60′	30′	0,1305262	480,7	9,9914449	63,3	30′
3′	0,1220137		0,9925284		3′	3′	0,1306704		9,9914265	63,4	3′
1	0,1221581	481,2	0,9925107	59,3	59′	31′	0,1308146		9,9914069	63,5	29′
3′	0,1223025		0,9924929	59,4	3′	3′	0,1309588	480,6	9,9913879	63,6	3′
2′	0,1224468		0,9924751	59,5	58′	32′	0,1311030	480,5	9,9913688	63,7	28′
3′	0,1225912	481,1	0,9924573	59,6	3′	3′	0,1312472	480,6	9,9913497		3′
3′	0,1227355	481,0	0,9924394	59,7	57′	33′	0,1313913	480,7	9,9913306	63,8	27′
3′	0,1228798		0,9924215		3′	3′	0,1315355	480,6	9,9913115	63,9	3′
4′	0,1230241	481,2	0,9924037		56′	34′	0,1316797	480,5	9,9912923	64,0	26′
3′	0,1231685	481,1	0,9923858		3′	3′	0,1318239		9,9912732		3′
5′	0,1233128	481,0	0,9923679	59,8	55′	35′	0,1319681		9,9912540		25′
3′	0,1234571	481,1	0,9923499	59,9	3′	3′	0,1321122		9,9912348	64,1	3′
6′	0,1236015	481,2	0,9923319	60,0	54′	36′	0,1322564		9,9912155	64,2	24′
3′	0,1237458		0,9923139	60,1	3′	3′	0,1324006		9,9911962		3′
7′	0,1238901		0,9922959	60,2	53′	37′	0,1325447		9,9911770	64,3	23′
3′	0,1240344		0,9922779		3′	3′	0,1326888		9,9911577	64,4	3′
8′	0,1241788	481,0	0,9922599	60,3	52′	38′	0,1328330		9,9911384	64,5	22′
3′	0,1243231		0,9922418		3′	3′	0,1329772		9,9911191	64,6	3′
9′	0,1244674		0,9922237		51′	39′	0,1331213		9,9910997	64,7	21′
3′	0,1246117		0,9922056	60,4	3′	3′	0,1332655		9,9910803		3′
10′	0,1247560		0,9921874	60,5	50′	40′	0,1334096		9,9910610		20′
3′	0,1249003		0,9921693	60,6	3′	3′	0,1335538		9,9910415		3′
11′	0,1250446		0,9921511	60,7	49′	41′	0,1336979		9,9910221	64,8	19′
3′	0,1251889		0,9921329		3′	3′	0,1338421	480,4	9,9910027	64,9	3′
12′	0,1253332		0,9921147	60,8	48′	42′	0,1339862	480,3	9,9909832	65,0	18′
3′	0,1254775		0,9920965	60,9	3′	3′	0,1341303	480,4	9,9909637	65,1	3′
13′	0,1256218		0,9920782	61,0	47′	43′	0,1342744	480,5	9,9909442	65,2	17′
3′	0,1257661		0,9920599	61,1	3′	3′	0,1344186	480,4	9,9909246		3′
14′	0,1259104	481,0	0,9920416	61,2	46′	44′	0,1345627	480,3	9,9909051	65,3	16′
3′	0,1260547	480,9	0,9920232		3′	3′	0,1347068	480,4	9,9908855	65,4	3′
15′	0,1261990	480,8	0,9920049	61,3	45′	45′	0,1348509	480,5	9,9908659	65,5	15′
3′	0,1263433	480,9	0,9919865		3′	3′	0,1349951	480,4	9,9908463	65,6	3′
16′	0,1264875	481,0	0,9919682		44′	46′	0,1351392	480,3	9,9908266	65,7	14′
3′	0,1266318	480,9	0,9919498	61,4	3′	3′	0,1352833		9,9908069		3′
17′	0,1267761	480,8	0,9919314	61,5	43′	47′	0,1354274		9,9907873		13′
3′	0,1269203		0,9919129	61,6	3′	3′	0,1355715		9,9907676		3′
18′	0,1270646		0,9918944	61,7	42′	48′	0,1357156		9,9907478	65,8	12′
3′	0,1272089		0,9918759		3′	3′	0,1358597		9,9907281	65,9	3′
19′	0,1273531		0,9918574	61,8	41′	49′	0,1360038		9,9907083	66,0	11′
3′	0,1274973		0,9918389	61,9	3′	3′	0,1361479		9,9906885	66,1	3′
20′	0,1276416		0,9918204	62,0	40′	50′	0,1362919		9,9906687	66,2	10′
3′	0,1277859		0,9918018		3′	3′	0,1364360		9,9906488		3′
21′	0,1279302		0,9917832		39′	51′	0,1365801		9,9906290	66,3	9′
3′	0,1280744		0,9917646	62,1	3′	3′	0,1367242		9,9906092	66,4	3′
22′	0,1282186		0,9917459	62,2	38′	52′	0,1368683	480,2	9,9905893	66,5	8′
3′	0,1283629		0,9917272		3′	3′	0,1370123		9,9905694		3′
23′	0,1285071		0,9917086		37′	53′	0,1371564	480,3	9,9905494		7′
3′	0,1286514		0,9916899	62,3	3′	3′	0,1373005		9,9905295	66,6	3′
24′	0,1287956		0,9916712	62,4	36′	54′	0,1374445		9,9905095	66,7	6′
3′	0,1289399		0,9916525	62,5	3′	3′	0,1375886		9,9904894		3′
25′	0,1290841	480,7	0,9916337	62,7	35′	55′	0,1377327	480,2	9,9904694	66,8	5′
3′	0,1292283		0,9916149		3′	3′	0,1378768		9,9904494	66,9	3′
26′	0,1293725		0,9915961	62,8	34′	56′	0,1380208		9,9904293	67,0	4′
3′	0,1295167		0,9915773	62,9	3′	3′	0,1381648		9,9904092	67,1	3′
27′	0,1296609		0,9915584	63,0	33′	57′	0,1383089		9,9903891	67,2	3′
3′	0,1298052		0,9915395		3′	3′	0,1384530		9,9903690		3′
28′	0,1299494		0,9915206		32′	58′	0,1385970	480,1	9,9903489		2′
3′	0,1300936		0,9915017		3′	3′	0,1387410	480,0	9,9903287	67,3	3′
29′	0,1302378		0,9914828	63,1	31′	59′	0,1388850	480,1	9,9903085		1′
3′	0,1303820		0,9914639	63,2	3′	3′	0,1390290	480,2	9,9902883		3′
30′	0,1305262		0,9914449		30′	60′	0,1391731		9,9902681	67,4	0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,1391731	480,2	0,9902681	67,5	60′	30′	0,1478094	479,6	0,9890159	71,7	30′
30	0,1393172	480,1	0,9902478	67,6	30	30	0,1479533		0,9889943		30
1′	0,1394612	480,0	0,9902275	67,7	59′	31′	0,1480971		0,9889728	71,8	29′
30	0,1396052		0,9902072		30	30	0,1482410		0,9889513	71,9	30
2′	0,1397492		0,9901869	67,8	58′	32′	0,1483848	479,5	0,9889297	72,0	28′
30	0,1398932		0,9901666	67,9	30	30	0,1485286	479,4	0,9889081	72,1	30
3′	0,1400372		0,9901462	68,0	57′	33′	0,1486724	479,3	0,9888865	72,2	27′
30	0,1401812		0,9901259	68,1	30	30	0,1488163	479,2	0,9888648		30
4′	0,1403252		0,9901054	68,2	56′	34′	0,1489601	479,1	0,9888432	72,3	26′
30	0,1404692		0,9900850		30	30	0,1491039	479,0	0,9888215	72,4	30
5′	0,1406132		0,9900646		55′	35′	0,1492477		0,9887998	72,5	25′
30	0,1407572		0,9900442		30	30	0,1493915	479,0	0,9887781		30
6′	0,1409012		0,9900237	68,3	54′	36′	0,1495353	478,9	0,9887564		24′
30	0,1410452		0,9900032	68,4	30	30	0,1496792	478,8	0,9887346	72,6	30
7′	0,1411892		0,9899826	68,5	53′	37′	0,1498230	478,7	0,9887128	72,7	23′
30	0,1413332	479,9	0,9899621	68,6	30	30	0,1499668		0,9886910		30
8′	0,1414772	479,8	0,9899415	68,7	52′	38′	0,1501106	478,8	0,9886692	72,8	22′
30	0,1416211		0,9899209		30	30	0,1502543		0,9886474	72,9	30
9′	0,1417651	479,9	0,9899003	68,8	51′	39′	0,1503981	478,7	0,9886255	73,0	21′
30	0,1419091		0,9898797	68,9	30	30	0,1505419		0,9886036	73,1	30
10′	0,1420531		0,9898590	69,0	50′	40′	0,1506857		0,9885817	73,2	20′
30	0,1421970		0,9898383		30	30	0,1508295		0,9885598		30
11′	0,1423410	479,8	0,9898177		49′	41′	0,1509733	478,6	0,9885378	73,3	19′
30	0,1424850		0,9897969		30	30	0,1511170		0,9885159		30
12′	0,1426289		0,9897762	69,1	48′	42′	0,1512608	478,5	0,9884939		18′
30	0,1427729		0,9897555	69,2	30	30	0,1514046		0,9884719	73,4	30
13′	0,1429168		0,9897347	69,3	47′	43′	0,1515484	478,4	0,9884498	73,5	17′
30	0,1430608		0,9897139		30	30	0,1516922		0,9884278	73,6	30
14′	0,1432047		0,9896931	69,4	46′	44′	0,1518359		0,9884057	73,7	16′
30	0,1433486		0,9896723	69,5	30	30	0,1519796		0,9883836		30
15′	0,1434926		0,9896514	69,6	45′	45′	0,1521234		0,9883615	73,8	15′
30	0,1436366		0,9896305		30	30	0,1522672		0,9883394	73,9	30
16′	0,1437805		0,9896095	69,8	44′	46′	0,1524109		0,9883172	74,0	14′
30	0,1439245		0,9895887	69,9	30	30	0,1525547	478,1	0,9882950	74,1	30
17′	0,1440684		0,9895677	70,0	43′	47′	0,1526984	478,0	0,9882728	74,2	13′
30	0,1442123		0,9895467		30	30	0,1528421		0,9882506		30
18′	0,1443562		0,9895258		42′	48′	0,1529858	478,1	0,9882284		12′
30	0,1445001	479,7	0,9895048	70,1	30	30	0,1531296	478,0	0,9882061		30
19′	0,1446440	479,6	0,9894838	70,2	41′	49′	0,1532733	478,1	0,9881838	74,3	11′
30	0,1447880		0,9894627		30	30	0,1534170	478,0	0,9881616	74,4	30
20′	0,1449319		0,9894416	70,3	40′	50′	0,1535607	478,1	0,9881392	74,5	10′
30	0,1450758	479,5	0,9894205	70,4	30	30	0,1537045	478,0	0,9881169	74,6	30
21′	0,1452197		0,9893994	70,5	39′	51′	0,1538482	478,1	0,9880945	74,7	9′
30	0,1453636		0,9893783	70,6	30	30	0,1539919	478,0	0,9880721		30
22′	0,1455075		0,9893572	70,7	38′	52′	0,1541356		0,9880497	74,8	8′
30	0,1456514		0,9893360		30	30	0,1542793		0,9880273		30
23′	0,1457953		0,9893148		37′	53′	0,1544230		0,9880048	74,9	7′
30	0,1459392		0,9892935		30	30	0,1545667		0,9879823	75,0	30
24′	0,1460830		0,9892723	70,8	36′	54′	0,1547104		0,9879599		6′
30	0,1462269	479,5	0,9892511	70,9	30	30	0,1548541	478,9	0,9879373	75,1	30
25′	0,1463708	479,5	0,9892298	71,0	35′	55′	0,1549978	478,8	0,9879148	75,2	5′
30	0,1465147	479,6	0,9892085	71,1	30	30	0,1551415	478,9	0,9878923		30
26′	0,1466585	479,5	0,9891872	71,2	34′	56′	0,1552851	478,8	0,9878697	75,3	4′
30	0,1468024		0,9891659		30	30	0,1554288	478,9	0,9878471	75,4	30
27′	0,1469463		0,9891445	71,3	33′	57′	0,1555725	478,8	0,9878245	75,5	3′
30	0,1470901		0,9891231	71,4	30	30	0,1557162	478,9	0,9878019	75,6	30
28′	0,1472340		0,9891017	71,5	32′	58′	0,1558598	478,8	0,9877792	75,7	2′
30	0,1473779		0,9890803	71,6	30	30	0,1560035	478,9	0,9877565		30
29′	0,1475217		0,9890588	71,7	31′	59′	0,1561472	478,8	0,9877338	75,8	1′
30	0,1476655	479,5	0,9890373		30	30	0,1562908	478,8	0,9877111		30
30′	0,1478094		0,9890159		30′	60′	0,1564345		0,9876883		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,1564345	478,8	0,9876883	75,8	60′	30′	0,1650476	478,2	0,9862856	80,2	30′
3″	0,1565782		0,9876656	75,9	3″	3″	0,1651910		0,9862616		3″
1′	0,1567218		0,9876428	76,0	59′	31′	0,1653345		0,9862375		29′
3″	0,1568655		0,9876200	76,1	3″	3″	0,1654780	478,1	0,9862134		3″
2′	0,1570091	478,7	0,9875972		58′	32′	0,1656214	478,0	0,9861894	80,3	28′
3″	0,1571527		0,9875743	76,2	3″	3″	0,1657648		0,9861653		3″
3′	0,1572963	478,8	0,9875514	76,3	57′	33′	0,1659082	478,1	0,9861412	80,4	27′
3″	0,1574399		0,9875285		3″	3″	0,1660517	478,2	0,9861171	80,5	3″
4′	0,1575836	478,7	0,9875057	76,4	56′	34′	0,1661951	478,1	0,9860929	80,6	26′
3″	0,1577272		0,9874828	76,5	3″	3″	0,1663385	478,0	0,9860687	80,7	3″
5′	0,1578708	478,8	0,9874598	76,6	55′	35′	0,1664819		0,9860445	80,8	25′
3″	0,1580145		0,9874368	76,7	3″	3″	0,1666253		0,9860203	80,9	3″
6′	0,1581581	478,7	0,9874138	76,8	54′	36′	0,1667687		0,9859960	81,0	24′
3″	0,1583017		0,9873908		3″	3″	0,1669121		0,9859717		3″
7′	0,1584453		0,9873678		53′	37′	0,1670556		0,9859476		23′
3″	0,1585889		0,9873447	76,9	3″	3″	0,1671989		0,9859232	81,1	3″
8′	0,1587325		0,9873216	77,0	52′	38′	0,1673423		0,9858988	81,2	22′
3″	0,1588761		0,9872985	77,1	3″	3″	0,1674857		0,9858744		3″
9′	0,1590197		0,9872754	77,2	51′	39′	0,1676291		0,9858501	81,3	21′
3″	0,1591633		0,9872522		3″	3″	0,1677725		0,9858257	81,4	3″
10′	0,1593069	478,6	0,9872291	77,3	50′	40′	0,1679159	477,9	0,9858013	81,5	20′
3″	0,1594505	478,5	0,9872059	77,4	3″	3″	0,1680594	477,8	0,9857769	81,6	3″
11′	0,1595940	478,6	0,9871827	77,5	49′	41′	0,1682026	477,9	0,9857524	81,7	19′
3″	0,1597376	478,7	0,9871595		3″	3″	0,1683460	478,0	0,9857279		3″
12′	0,1598812	478,6	0,9871363		48′	42′	0,1684894	477,9	0,9857035		18′
3″	0,1600248	478,5	0,9871130	77,6	3″	3″	0,1686327	477,8	0,9856790		3″
13′	0,1601683	478,6	0,9870897	77,7	47′	43′	0,1687761		0,9856544	81,8	17′
3″	0,1603119	478,7	0,9870664		3″	3″	0,1689194		0,9856299	81,9	3″
14′	0,1604555	478,6	0,9870431	77,8	46′	44′	0,1690628		0,9856053	82,0	16′
3″	0,1605990	478,5	0,9870198	77,9	3″	3″	0,1692062		0,9855807	82,1	3″
15′	0,1607426		0,9869964	78,0	45′	45′	0,1693495		0,9855561	82,2	15′
3″	0,1608862		0,9869730	78,1	3″	3″	0,1694929		0,9855314		3″
16′	0,1610297	478,3	0,9869496	78,2	44′	46′	0,1696362	477,7	0,9855068	82,3	14′
3″	0,1611732	478,4	0,9869261		3″	3″	0,1697795		0,9854821	82,4	3″
17′	0,1613167		0,9869027	78,3	43′	47′	0,1699228	477,8	0,9854574	82,5	13′
3″	0,1614602	478,5	0,9868792	78,4	3″	3″	0,1700660		0,9854327	82,6	3″
18′	0,1616038		0,9868557	78,5	42′	48′	0,1702093	477,7	0,9854079	82,7	12′
3″	0,1617474	478,4	0,9868322		3″	3″	0,1703526		0,9853832		3″
19′	0,1618909	478,3	0,9868087		41′	49′	0,1704961	477,8	0,9853584		11′
3″	0,1620344	478,4	0,9867851	78,6	3″	3″	0,1706393		0,9853335		3″
20′	0,1621779	478,5	0,9867615	78,7	40′	50′	0,1707828	477,7	0,9853087	82,8	10′
3″	0,1623215	478,4	0,9867379		3″	3″	0,1709261		0,9852839	82,9	3″
21′	0,1624650	478,3	0,9867143	78,8	39′	51′	0,1710694		0,9852590	83,0	9′
3″	0,1626085		0,9866907	78,9	3″	3″	0,1712127	477,6	0,9852341	83,1	3″
22′	0,1627520		0,9866670		38′	52′	0,1713560	477,5	0,9852092	83,2	8′
3″	0,1628955		0,9866433	79,0	3″	3″	0,1714993	477,6	0,9851842	83,3	3″
23′	0,1630390		0,9866196	79,1	37′	53′	0,1716425	477,7	0,9851593	83,4	7′
3″	0,1631825		0,9865959	79,2	3″	3″	0,1717858	477,6	0,9851343	83,5	3″
24′	0,1633260	478,2	0,9865722		36′	54′	0,1719291	477,5	0,9851093		6′
3″	0,1634694		0,9865484		3″	3″	0,1720724	477,6	0,9850843		3″
25′	0,1636129	478,3	0,9865246	79,3	35′	55′	0,1722156	477,7	0,9850593	83,6	5′
3″	0,1637564		0,9865008	79,4	3″	3″	0,1723589	477,6	0,9850342	83,7	3″
26′	0,1638999	478,2	0,9864770	79,5	34′	56′	0,1725022	477,5	0,9850091		4′
3″	0,1640434		0,9864532	79,6	3″	3″	0,1726455		0,9849840		3″
27′	0,1641868		0,9864293		33′	57′	0,1727887		0,9849589	83,8	3′
3″	0,1643303	478,3	0,9864054	79,7	3″	3″	0,1729319		0,9849338	83,9	3″
28′	0,1644738	478,2	0,9863815	79,8	32′	58′	0,1730752		0,9849086	84,0	2′
3″	0,1646172		0,9863576	79,9	3″	3″	0,1732185		0,9848834	84,1	3″
29′	0,1647607		0,9863336	80,0	31′	59′	0,1733617		0,9848582	84,2	1′
3″	0,1649042		0,9863096		3″	3″	0,1735050		0,9848330		3″
30′	0,1650476		0,9862856	80,1	30′	60′	0,1736482	477,4	0,9848078		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	dif. 10″	
0′	0,1736482	477,3	0,9848078	84,3	60′	30′	0,1822355	476,7	0,9832549	88,5	30′
3″	0,1737914	477,4	0,9847825		3″	3″	0,1823785		0,9832284		3″
1′	0,1739346	477,5	0,9847572		59′	31′	0,1825215		0,9832019		29′
3″	0,1740779	477,4	0,9847319	84,4	3″	3″	0,1826645		0,9831753	88,6	3″
2′	0,1742211	477,3	0,9847066	84,5	58′	32′	0,1828075		0,9831487	88,7	28′
3″	0,1743643		0,9846812	84,6	3″	3″	0,1829505		0,9831221		3″
3′	0,1745075		0,9846558	84,7	57′	33′	0,1830935	476,6	0,9830955	88,8	27′
3″	0,1746507		0,9846304	84,8	3″	3″	0,1832365	476,5	0,9830689	88,9	3″
4′	0,1747939		0,9846050	84,9	56′	34′	0,1833795		0,9830422	89,0	26′
3″	0,1749371		0,9845796		3″	3″	0,1835224		0,9830155	89,1	3″
5′	0,1750803		0,9845542	85,0	55′	35′	0,1836654	476,5	0,9829888	89,2	25′
3″	0,1752235		0,9845287		3″	3″	0,1838084	476,6	0,9829621		3″
6′	0,1753667		0,9845032		54′	36′	0,1839514	476,7	0,9829353	89,3	24′
3″	0,1755099		0,9844777	85,1	3″	3″	0,1840944	476,6	0,9829086		3″
7′	0,1756531		0,9844521	85,2	53′	37′	0,1842373	476,5	0,9828818		23′
3″	0,1757963		0,9844265		3″	3″	0,1843802		0,9828550	89,4	3″
8′	0,1759395	477,2	0,9844010	85,3	52′	38′	0,1845232		0,9828282	89,5	22′
3″	0,1760826		0,9843754	85,4	3″	3″	0,1846662	476,4	0,9828013	89,6	3″
9′	0,1762258		0,9843498	85,5	51′	39′	0,1848091	476,3	0,9827744	89,7	21′
3″	0,1763690		0,9843242	85,6	3″	3″	0,1849520	476,4	0,9827476		3″
10′	0,1765121		0,9842985	85,7	50′	40′	0,1850949	476,5	0,9827206	89,8	20′
3″	0,1766552		0,9842728		3″	3″	0,1852379	476,4	0,9826937	89,9	3″
11′	0,1767984		0,9842471	85,8	49′	41′	0,1853808	476,3	0,9826668	90,0	19′
3″	0,1769416		0,9842214	85,9	3″	3″	0,1855237		0,9826398		3″
12′	0,1770847		0,9841956	86,0	48′	42′	0,1856666		0,9826128		18′
3″	0,1772278		0,9841698		3″	3″	0,1858095		0,9825858	90,1	3″
13′	0,1773710		0,9841441		47′	43′	0,1859524		0,9825587	90,2	17′
3″	0,1775142	477,1	0,9841182	86,1	3″	3″	0,1860953		0,9825316		3″
14′	0,1776573	477,0	0,9840924	86,2	46′	44′	0,1862382		0,9825046	90,3	16′
3″	0,1778004	477,1	0,9840665		3″	3″	0,1863811		0,9824775	90,4	3″
15′	0,1779435	477,2	0,9840407	86,3	45′	45′	0,1865240		0,9824504	90,5	15′
3″	0,1780867	477,1	0,9840148	86,4	3″	3″	0,1866669		0,9824233	90,6	3″
15′	0,1782298	477,0	0,9839889	86,5	44′	46′	0,1868098		0,9823961	90,7	14′
3″	0,1783729		0,9839630	86,6	3″	3″	0,1869527		0,9823689		3″
17′	0,1785160		0,9839370	86,7	43′	47′	0,1870956	476,2	0,9823417	90,8	13′
3″	0,1786591		0,9839110		3″	3″	0,1872384		0,9823145		3″
18′	0,1788022		0,9838850	86,8	42′	48′	0,1873813		0,9822873		12′
3″	0,1789453		0,9838590		3″	3″	0,1875242		0,9822600	90,9	3″
19′	0,1790884		0,9838330		41′	49′	0,1876670		0,9822327	91,0	11′
3″	0,1792315	476,9	0,9838069	86,9	3″	3″	0,1878099		0,9822054	91,1	3″
20′	0,1793746	476,8	0,9837808	87,0	40′	50′	0,1879528		0,9821781	91,2	10′
3″	0,1795176	476,9	0,9837547	87,1	3″	3″	0,1880956		0,9821507		3″
21′	0,1796607	477,0	0,9837286	87,2	39′	51′	0,1882385		0,9821234	91,3	9′
3″	0,1798038	476,9	0,9837025		3″	3″	0,1883813		0,9820960	91,4	3″
22′	0,1799469	476,8	0,9836763	87,3	38′	52′	0,1885241		0,9820686	91,5	8′
3″	0,1800899		0,9836501	87,4	3″	3″	0,1886670	476,1	0,9820412	91,6	3″
23′	0,1802330		0,9836239	87,5	37′	53′	0,1888098	476,0	0,9820137	91,7	7′
3″	0,1803760		0,9835977		3″	3″	0,1889526	476,1	0,9819862		3″
24′	0,1805191		0,9835715		36′	54′	0,1890954	476,2	0,9819587	91,8	6′
3″	0,1806622		0,9835452	87,6	3″	3″	0,1892383	476,1	0,9819312		3″
25′	0,1808052		0,9835189	87,7	35′	55′	0,1893811	476,0	0,9819037		5′
3″	0,1809483		0,9834926		3″	3″	0,1895239		0,9818761	91,9	3″
26′	0,1810913		0,9834663	87,8	34′	56′	0,1896667		0,9818485	92,0	4′
3″	0,1812343		0,9834400	87,9	3″	3″	0,1898095		0,9818209	92,1	3″
27′	0,1813774		0,9834136	88,0	33′	57′	0,1899523		0,9817933	92,2	3′
3″	0,1815204		0,9833872	88,1	3″	3″	0,1900951	476,9	0,9817656		3″
28′	0,1816635		0,9833608	88,2	32′	58′	0,1902379	476,8	0,9817380	92,3	2′
3″	0,1818065	476,7	0,9833343		3″	3″	0,1903806	476,9	0,9817103	92,4	3″
29′	0,1819495		0,9833079	88,3	31′	59′	0,1905234	476,0	0,9816826	92,5	1′
3″	0,1820925		0,9832814	88,4	3″	3″	0,1906662	476,9	0,9816549		3″
30′	0,1822355	476,7	0,9832549		30′	60′	0,1908090		0,9816272		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ dif.	

11 deg.

	sin.	diff. 10″	co-sin.	dif. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,1908090	475,8	0,9816272	92,5	60′	30′	0,1993679	475,2	0,9799447	96,7	30′
3″	0,1909517		0,9815994	92,6	3″	3″	0,1995105	475,1	0,9798867		3″
1′	0,1910945		0,9815716	92,7	59′	31′	0,1996530	475,0	0,9798287	96,8	29′
3″	0,1912373		0,9815438		3″	3″	0,1997955		0,9797707	96,9	3″
2′	0,1913801		0,9815160	92,8	58′	32′	0,1999380		0,9797086	97,0	28′
3″	0,1915228		0,9814882		3″	3″	0,2000805		0,9797795		3″
3′	0,1916656		0,9814603	92,9	57′	33′	0,2002230		0,9797204	97,1	27′
3″	0,1918083		0,9814324	93,0	3″	3″	0,2003655		0,9797112	97,2	3″
4′	0,1919510		0,9814045	93,1	56′	34′	0,2005080		0,9796621		26′
3″	0,1920938		0,9813765	93,2	3″	3″	0,2006505		0,9796029	97,3	3″
5′	0,1922365		0,9813486	93,3	55′	35′	0,2007930	474,9	0,9795437	97,4	25′
3″	0,1923793		0,9813207		3″	3″	0,2009355	474,8	0,9794844	97,5	3″
6′	0,1925220	475,7	0,9812927		54′	36′	0,2010779	474,9	0,9794252		24′
3″	0,1926647		0,9812646		3″	3″	0,2012204	475,0	0,9793659		3″
7′	0,1928074		0,9812366	93,4	53′	37′	0,2013629	474,9	0,9793067	97,6	23′
				93,5				474,8		97,7	
3″	0,1929501		0,9812086		3″	3″	0,2015053		0,9792474		3″
8′	0,1930928		0,9811805	93,6	52′	38′	0,2016478		0,9792081	97,8	22′
3″	0,1932355		0,9811524	93,7	3″	3″	0,2017903		0,9792488		3″
9′	0,1933782		0,9811243		51′	39′	0,2019327		0,9793894	97,9	21′
3″	0,1935209		0,9810962	93,8	3″	3″	0,2020752		0,9793300	98,0	3″
				93,9						98,1	
10′	0,1936636		0,9810680		50′	40′	0,2022176		0,9793106		20′
3″	0,1938063		0,9810398	94,0	3″	3″	0,2023600	474,7	0,9793112	98,2	3″
11′	0,1939490		0,9810116	94,1	49′	41′	0,2025024		0,9792818		19′
3″	0,1940917		0,9809834	94,2	3″	3″	0,2026448	474,8	0,9792223		3″
12′	0,1942344		0,9809552		48′	42′	0,2027873	474,7	0,9792228		18′
		475,7						474,8		98,3	
3″	0,1943771	475,6	0,9809269		3″	3″	0,2029297		0,9791633		3″
13′	0,1945197	475,5	0,9808986		47′	43′	0,2030721		0,9791038	98,4	17′
3″	0,1946624		0,9808703	94,3	3″	3″	0,2032145		0,9791443	98,5	3″
14′	0,1948050		0,9808420	94,4	46′	44′	0,2033569		0,9791847	98,6	16′
3″	0,1949476		0,9808137	94,5	3″	3″	0,2034994		0,9790251	98,7	3″
				94,6							
15′	0,1950903		0,9807853		45′	45′	0,2036418		0,9790655	98,8	15′
3″	0,1952330		0,9807569	94,7	3″	3″	0,2037841		0,9790159		3″
16′	0,1953756		0,9807285		44′	46′	0,2039265		0,9789462	98,9	14′
3″	0,1955182		0,9807001	94,8	3″	3″	0,2040689		0,9789865	99,0	3″
17′	0,1956609		0,9806716	94,9	43′	47′	0,2042113		0,9789268		13′
				95,0							
3″	0,1958035		0,9806431		3″	3″	0,2043537	474,6	0,9788671		3″
18′	0,1959461		0,9806147		42′	48′	0,2044961	474,5	0,9788074	99,1	12′
3″	0,1960888	475,4	0,9805862		3″	3″	0,2046384		0,9788476	99,2	3″
19′	0,1962314	475,3	0,9805576	95,1	41′	49′	0,2047808		0,9788879		11′
3″	0,1963740		0,9805290	95,2	3″	3″	0,2049232		0,9787281	99,3	3″
										99,4	
20′	0,1965166		0,9805005		40′	50′	0,2050655		0,9787683		10′
3″	0,1966592		0,9804719	95,3	3″	3″	0,2052078		0,9787185	99,5	3″
21′	0,1968018		0,9804433	95,4	39′	51′	0,2053502		0,9786686	99,6	9′
3″	0,1969444		0,9804147	95,5	3″	3″	0,2054926		0,9786187	99,7	3″
22′	0,1970870		0,9803860	95,6	38′	52′	0,2056349	474,4	0,9786288		8′
				95,7						99,8	
3″	0,1972296		0,9803573		3″	3″	0,2057772	474,3	0,9785788		3″
23′	0,1973722	475,2	0,9803286		37′	53′	0,2059195	474,4	0,9785289		7′
3″	0,1975147		0,9802999	95,8	3″	3″	0,2060619	474,5	0,9785390		3″
24′	0,1976573	475,3	0,9802712		36′	54′	0,2062042	474,4	0,9785070	99,9	6′
3″	0,1977999		0,9802424		3″	3″	0,2063465	474,3	0,9784790	100,0	3″
				95,9						100,1	
25′	0,1979425	475,2	0,9802136		35′	55′	0,2064888		0,9784490	100,2	5′
3″	0,1980850		0,9801848	96,0	3″	3″	0,2066311		0,9784189		3″
26′	0,1982276		0,9801560	96,1	34′	56′	0,2067734		0,9783889	100,3	4′
3″	0,1983702		0,9801271	96,2	3″	3″	0,2069157		0,9783588	100,4	3″
27′	0,1985127		0,9800983		33′	57′	0,2070580		0,9783287	100,5	3′
				96,3							
3″	0,1986552		0,9800694		3″	3″	0,2072003		0,9782986	100,6	3″
28′	0,1987978		0,9800405	96,4	32′	58′	0,2073426		0,9782684	100,7	2′
3″	0,1989404	475,1	0,9800116	96,5	3″	3″	0,2074849	474,2	0,9782382		3″
29′	0,1990829	475,0	0,9799827		31′	59′	0,2076272	474,3	0,9782080		1′
3″	0,1992254		0,9799537		3″	3″	0,2077695		0,9781778		3″
30′	0,1993679	475,1	0,9799247	96,6	30′	60′	0,2079117	474,2	0,9781476		0′
	co-sin.	10″ diff.	sin.	10″ dif.			co-sin.	10″ diff.	sin.	10″ diff.	

78 deg.

	sin.	diff. 10″	co-sin.	diff. 10′			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,2071117	474,2	0,9781476	100,8	60′	30′	0,2164396	473,3	0,9762960	105,0	30′
3′	0,2082540		0,9781174	100,9	3′	3′	0,2165816		0,9762645	105,1	3′
1′	0,2081962		0,9780871	101,0	57′	31′	0,2167236		0,9762330	105,2	29′
3′	0,2083384		0,9780568	101,1	3′	3′	0,2168656		0,9762014		3′
2′	0,2084807		0,9780265	101,2	58′	32′	0,2170076	473,2	0,9761699	105,3	28′
3′	0,2086229		0,9779961		3′	3′	0,2171495		0,9761383		3′
3′	0,2087652		0,9779658	101,3	57′	33′	0,2172915		0,9761067		27′
3′	0,2089080	474,1	0,9779354	101,4	3′	3′	0,2174335		0,9760751	105,4	3′
4′	0,2090497	474,0	0,9779050	101,5	56′	34′	0,2175754		0,9760436	105,5	26′
3′	0,2091919	474,1	0,9778745		3′	3′	0,2177173		0,9760119	105,6	3′
5′	0,2093341	474,2	0,9778441		55′	35′	0,2178593		0,9759802	105,7	25′
3′	0,2094764	474,1	0,9778137	101,6	3′	3′	0,2180013		0,9759485		3′
6′	0,2096186	474,0	0,9777832	101,7	54′	36′	0,2181432		0,9759168	105,8	24′
3′	0,2097608		0,9777527		3′	3′	0,2182851		0,9758851	105,9	3′
7′	0,2099030		0,9777222	101,8	53′	37′	0,2184271		0,9758533	106,0	23′
3′	0,2100452		0,9776917	101,9	3′	3′	0,2185691	473,1	0,9758215	106,1	3′
8′	0,2101874		0,9776611	102,0	52′	38′	0,2187110	473,0	0,9757897	106,2	22′
3′	0,2103296	473,9	0,9776305	102,1	3′	3′	0,2188529		0,9757578		3′
9′	0,2104718	473,8	0,9775999	102,2	51′	39′	0,2189948		0,9757260		21′
3′	0,2106139	473,9	0,9775692		3′	3′	0,2191367		0,9756942		3′
10′	0,2107561	474,0	0,9775386		50′	40′	0,2192786		0,9756623	106,3	20′
3′	0,2108983	473,9	0,9775080		3′	3′	0,2194205		0,9756304	106,4	3′
11′	0,2110405	473,8	0,9774773	102,3	49′	41′	0,2195624		0,9755985	106,5	19′
3′	0,2111826		0,9774466	102,4	3′	3′	0,2197043		0,9755666	106,6	3′
12′	0,2113248		0,9774159	102,5	48′	42′	0,2198462		0,9755346	106,7	18′
3′	0,2114670		0,9773852	102,6	3′	3′	0,2199881	472,9	0,9755026		3′
13′	0,2116091		0,9773544	102,7	47′	43′	0,2201300	472,8	0,9754706	106,8	17′
3′	0,2117513		0,9773236		3′	3′	0,2202718		0,9754385	106,9	3′
14′	0,2118934		0,9772928	102,8	46′	44′	0,2204137		0,9754065	107,0	16′
3′	0,2120356	473,8	0,9772620	102,9	3′	3′	0,2205555		0,9753744		3′
15′	0,2121777	473,7	0,9772311	103,0	45′	45′	0,2206974		0,9753423	107,1	15′
3′	0,2123198		0,9772002		3′	3′	0,2208392		0,9753102	107,2	3′
16′	0,2124619	473,8	0,9771693		44′	46′	0,2209811		0,9752781		14′
3′	0,2126041		0,9771384	103,1	3′	3′	0,2211230		0,9752459	107,3	3′
17′	0,2127462	473,7	0,9771075		43′	47′	0,2212648		0,9752138		13′
3′	0,2128883		0,9770765	103,2	3′	3′	0,2214066		0,9751816	107,4	3′
18′	0,2130304		0,9770456	103,3	42′	48′	0,2215485	472,7	0,9751494	107,5	12′
3′	0,2131725		0,9770146	103,4	3′	3′	0,2216903		0,9751172	107,6	3′
19′	0,2133146		0,9769836	103,5	41′	49′	0,2218321		0,9750849	107,7	11′
3′	0,2134567	473,6	0,9769526	103,6	3′	3′	0,2219740	472,8	0,9750526		3′
20′	0,2135988	473,5	0,9769215	103,7	40′	50′	0,2221158	472,7	0,9750203	107,8	10′
3′	0,2137408	473,6	0,9768905		3′	3′	0,2222576		0,9749879		3′
21′	0,2138829	473,7	0,9768593	103,8	39′	51′	0,2223994		0,9749555		9′
3′	0,2140250	473,6	0,9768281		3′	3′	0,2225412		0,9749233		3′
22′	0,2141671	473,5	0,9767970		38′	52′	0,2226830		0,9748909	107,9	8′
3′	0,2143091		0,9767659	103,9	3′	3′	0,2228248		0,9748585	108,0	3′
23′	0,2144512		0,9767347	104,0	37′	53′	0,2229666	472,6	0,9748261	108,1	7′
3′	0,2145933		0,9767035	104,1	3′	3′	0,2231083	472,5	0,9747936	108,2	3′
24′	0,2147353		0,9766723	104,2	36′	54′	0,2232500	472,6	0,9747612	108,3	6′
3′	0,2148774		0,9766410		3′	3′	0,2233919	472,7	0,9747287	108,4	3′
25′	0,2150194		0,9766098	104,3	35′	55′	0,2235337	472,6	0,9746962	108,5	5′
3′	0,2151614		0,9765785	104,4	3′	3′	0,2236754	472,5	0,9746637		3′
26′	0,2153035		0,9765472	104,5	34′	56′	0,2238172		0,9746311		4′
3′	0,2154456	473,4	0,9765159	104,6	3′	3′	0,2239590	472,4	0,9745986	108,6	3′
27′	0,2155876	473,3	0,9764845	104,7	33′	57′	0,2241007	472,3	0,9745660	108,7	3′
3′	0,2157296		0,9764531		3′	3′	0,2242424	472,4	0,9745334		3′
28′	0,2158716		0,9764217		32′	58′	0,2243842	472,5	0,9745008	108,8	2′
3′	0,2160136		0,9763903		3′	3′	0,2245259		0,9744682	108,9	3′
29′	0,2161555		0,9763589	104,8	31′	59′	0,2246676		0,9744355	109,0	1′
3′	0,2162976		0,9763275		3′	3′	0,2248093		0,9744028		3′
30′	0,2164396		0,9762960	104,9	30′	60′	0,2249511	472,4	0,9743701	109,1	0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,2249511	472,3	0,9743701	109,2	60′	30′	0,2334454	471,3	0,9723699	113,3	30′
3″	0,2250928		0,9743373		3″	3″	0,2335868		0,9723359		3″
1′	0,2252345		0,9743046	109,3	59′	31′	0,2337282		0,9723019		29′
3″	0,2253762		0,9742718		3″	3″	0,2338696		0,9722679	113,4	3″
2′	0,2255179		0,9742390		58′	32′	0,2340110		0,9722339	113,5	28′
3″	0,2256596		0,9742062	109,4	3″	3″	0,2341524		0,9721999	113,6	3″
3′	0,2258013	472,2	0,9741734	109,5	57′	33′	0,2342938		0,9721658	113,7	27′
3″	0,2259429	472,3	0,9741406	109,6	3″	3″	0,2344352		0,9721317		3″
4′	0,2260846		0,9741077	109,7	56′	34′	0,2345766		0,9720976	113,8	26′
3″	0,2262263		0,9740748		3″	3″	0,2347180		0,9720634	113,9	3″
5′	0,2263680	472,2	0,9740419	109,8	55′	35′	0,2348594	471,2	0,9720293	114,0	25′
3″	0,2265096		0,9740090	109,9	3″	3″	0,2350007		0,9719951		3″
6′	0,2266513		0,9739760	110,0	54′	36′	0,2351421		0,9719609		24′
3″	0,2267929		0,9739430	110,1	3″	3″	0,2352834		0,9719267	114,1	3″
7′	0,2269346		0,9739100	110,2	53′	37′	0,2354248		0,9718925	114,2	23′
3″	0,2270763		0,9738769		3″	3″	0,2355662		0,9718583	114,3	3″
8′	0,2272179		0,9738439		52′	38′	0,2357075		0,9718240		22′
3″	0,2273596	472,1	0,9738109		3″	3″	0,2358489		0,9717897	114,4	3″
9′	0,2275012	472,0	0,9737778	110,3	51′	39′	0,2359902		0,9717554	114,5	21′
3″	0,2276428	472,1	0,9737447	110,4	3″	3″	0,2361316	471,1	0,9717211	114,6	3″
10′	0,2277844	472,2	0,9737116	110,5	50′	40′	0,2362729	471,0	0,9716867	114,7	20′
3″	0,2279261	472,1	0,9736785	110,6	3″	3″	0,2364142		0,9716523		3″
11′	0,2280677	472,0	0,9736453	110,7	49′	41′	0,2365555		0,9716179		19′
3″	0,2282093		0,9736121		3″	3″	0,2366968		0,9715835		3″
12′	0,2283509		0,9735789	110,8	48′	42′	0,2368381		0,9715491	114,8	18′
3″	0,2284925	471,9	0,9735457	110,9	3″	3″	0,2369794		0,9715147	114,9	3″
13′	0,2286341	471,8	0,9735124	111,0	47′	43′	0,2371207		0,9714802	115,0	17′
3″	0,2287756	471,9	0,9734791		3″	3″	0,2372620		0,9714457	115,1	3″
14′	0,2289172	472,0	0,9734458		46′	44′	0,2374033		0,9714112	115,2	16′
3″	0,2290588	471,9	0,9734125	111,1	3″	3″	0,2375446	470,9	0,9713766		3″
15′	0,2292004	471,8	0,9733792	111,2	45′	45′	0,2376859	470,8	0,9713421	115,3	15′
3″	0,2293419		0,9733458		3″	3″	0,2378272	470,9	0,9713075	115,4	3″
16′	0,2294835		0,9733125	111,3	44′	46′	0,2379684	471,0	0,9712729	115,5	14′
3″	0,2296251		0,9732791	111,4	3″	3″	0,2381097	470,9	0,9712382		3″
17′	0,2297666		0,9732457	111,5	43′	47′	0,2382510	470,8	0,9712036		13′
3″	0,2299082		0,9732123	111,6	3″	3″	0,2383922	470,8	0,9711690	115,6	3″
18′	0,2300497		0,9731788	111,7	42′	48′	0,2385335	470,7	0,9711343	115,7	12′
3″	0,2301912		0,9731453		3″	3″	0,2386747		0,9710996		3″
19′	0,2303328		0,9731118		41′	49′	0,2388159	470,8	0,9710649	115,8	11′
3″	0,2304743		0,9730783		3″	3″	0,2389571	470,8	0,9710302	115,9	3″
20′	0,2306159	471,7	0,9730448	111,8	40′	50′	0,2390984	470,7	0,9709954	116,0	10′
3″	0,2307574		0,9730113	111,9	3″	3″	0,2392396	470,7	0,9709606	116,1	3″
21′	0,2308989		0,9729777	112,0	39′	51′	0,2393808	470,8	0,9709258	116,2	9′
3″	0,2310404		0,9729441	112,1	3″	3″	0,2395221		0,9708909		3″
22′	0,2311819		0,9729105	112,2	38′	52′	0,2396633	470,7	0,9708561	116,3	8′
3″	0,2313234		0,9728768		3″	3″	0,2398045	470,6	0,9708212		3″
23′	0,2314649		0,9728432	112,3	37′	53′	0,2399457	470,5	0,9707863		7′
3″	0,2316064		0,9728095		3″	3″	0,2400869	470,6	0,9707514	116,4	3″
24′	0,2317479		0,9727758		36′	54′	0,2402280	470,7	0,9707165	116,5	6′
3″	0,2318894	471,6	0,9727421	112,4	3″	3″	0,2403692	470,6	0,9706816	116,6	3″
25′	0,2320309	471,5	0,9727084	112,5	35′	55′	0,2405104	470,5	0,9706466	116,7	5′
3″	0,2321723		0,9726747	112,6	3″	3″	0,2406516	470,6	0,9706116		3″
26′	0,2323138		0,9726409	112,7	34′	56′	0,2407927	470,7	0,9705766	116,8	4′
3″	0,2324553		0,9726071		3″	3″	0,2409339	470,6	0,9705416	116,9	3″
27′	0,2325967		0,9725733	112,8	33′	57′	0,2410751	470,5	0,9705066	117,0	3′
3″	0,2327381		0,9725395	112,9	3″	3″	0,2412163	470,4	0,9704714	117,1	3″
28′	0,2328796		0,9725056	113,0	32′	58′	0,2413574	470,3	0,9704363	117,2	2′
3″	0,2330211		0,9724717	113,1	3″	3″	0,2414985	470,4	0,9704011		3″
29′	0,2331625		0,9724378	113,2	31′	59′	0,2416396	470,5	0,9703660		1′
3″	0,2333039	471,4	0,9724038		3″	3″	0,2417808	470,4	0,9703308		3″
30′	0,2334454		0,9723699		30′	60′	0,2419219		0,9702957		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10′	
0′	0,2419219	470,3	0,9702605	117,3	60′
3′	0,2420639		0,9702505	117,4	3′
1′	0,2422241		0,9702253	117,5	59′
3′	0,2423652		0,9701901	117,6	3′
2′	0,2424863		0,9701548	117,7	58′
3′	0,2426274		0,9701195		3′
3′	0,2427685		0,9700842	117,8	57′
3′	0,2429096		0,9700488		3′
4′	0,2430507		0,9700135		56′
3′	0,2431918		0,9699782	117,9	3′
5′	0,2433329	470,2	0,9699428	118,0	55′
3′	0,2434739		0,9699074	118,1	3′
6′	0,2436150		0,9698720	118,2	54′
3′	0,2437561		0,9698365		3′
7′	0,2438971		0,9698011	118,3	53′
3′	0,2440381		0,9697656	118,4	3′
8′	0,2441792		0,9697301	118,5	52′
3′	0,2443202	470,1	0,9696945		3′
9′	0,2444613	470,0	0,9696590		51′
3′	0,2446023	470,1	0,9696235	118,6	3′
10′	0,2447433	470,2	0,9695879	118,7	50′
3′	0,2448844	470,1	0,9695523		3′
11′	0,2450254	470,0	0,9695167	118,8	49′
3′	0,2451664		0,9694811	118,9	3′
12′	0,2453074		0,9694454	119,0	48′
3′	0,2454484	469,9	0,9694097	119,1	3′
13′	0,2455894	469,8	0,9693740	119,2	47′
3′	0,2457303	469,9	0,9693382		3′
14′	0,2458713	470,0	0,9693025	119,3	46′
3′	0,2460123	469,9	0,9692667	119,4	3′
15′	0,2461533	469,8	0,9692309	119,5	45′
3′	0,2462942		0,9691950		3′
16′	0,2464352		0,9691592		44′
3′	0,2465761		0,9691234	119,6	3′
17′	0,2467171		0,9690875	119,7	43′
3′	0,2468581		0,9690516		3′
18′	0,2469990		0,9690157	119,8	42′
3′	0,2471399		0,9689798	119,9	3′
19′	0,2472809	469,7	0,9689438	120,0	41′
3′	0,2474218		0,9689078		3′
20′	0,2475627		0,9688718		40′
3′	0,2477036		0,9688358	120,1	3′
21′	0,2478445		0,9687998	120,2	39′
3′	0,2479854		0,9687637		3′
22′	0,2481263		0,9687277	120,3	38′
3′	0,2482672		0,9686916	120,4	3′
23′	0,2484081		0,9686555	120,5	37′
3′	0,2485490	469,6	0,9686194	120,6	3′
24′	0,2486899	469,5	0,9685832	120,7	36′
3′	0,2488307		0,9685470		3′
25′	0,2489716		0,9685108	120,8	35′
3′	0,2491124		0,9684746	120,9	3′
26′	0,2492533		0,9684383	121,0	34′
3′	0,2493942		0,9684020		3′
27′	0,2495350		0,9683657		33′
3′	0,2496759		0,9683294	121,1	3′
28′	0,2498167		0,9682931	121,2	32′
3′	0,2499576	469,4	0,9682567		3′
29′	0,2500984	469,3	0,9682204	121,3	31′
3′	0,2502392		0,9681840		3′
30′	0,2503800		0,9681476	121,4	30′
	co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″	
30′	0,2503800	469,3	0,9681476	121,5	30′
3′	0,2505208		0,9681111		3′
31′	0,2506616		0,9680747		29′
3′	0,2508024		0,9680383	121,6	3′
32′	0,2509432		0,9680018	121,7	28′
3′	0,2510840		0,9679653		3′
33′	0,2512248	469,2	0,9679288	121,8	27′
3′	0,2513655		0,9678923	121,9	3′
34′	0,2515063	469,3	0,9678557	122,0	26′
3′	0,2516471		0,9678191	122,1	3′
35′	0,2517879	469,2	0,9677825	122,2	25′
3′	0,2519287	469,1	0,9677458		3′
36′	0,2520694	469,0	0,9677092	122,3	24′
3′	0,2522101	469,1	0,9676725	122,4	3′
37′	0,2523508	469,2	0,9676358	122,5	23′
3′	0,2524916	469,1	0,9675990		3′
38′	0,2526323	469,0	0,9675623		22′
3′	0,2527730	469,1	0,9675256	122,6	3′
39′	0,2529137	469,2	0,9674888	122,7	21′
3′	0,2530545	469,1	0,9674520		3′
40′	0,2531952	469,0	0,9674152	122,8	20′
3′	0,2533359	468,9	0,9673784	122,9	3′
41′	0,2534765	468,8	0,9673415	123,0	19′
3′	0,2536172	468,9	0,9673046	123,1	3′
42′	0,2537579	469,0	0,9672677	123,2	18′
3′	0,2538985	468,9	0,9672307		3′
43′	0,2540393	468,8	0,9671938		17′
3′	0,2541799		0,9671569		3′
44′	0,2543205		0,9671199	123,3	16′
3′	0,2544612		0,9670829	123,4	3′
45′	0,2546019		0,9670459	123,5	15′
3′	0,2547425		0,9670089	123,6	3′
46′	0,2548832		0,9669718	123,7	14′
3′	0,2550239		0,9669347		3′
47′	0,2551645		0,9668976	123,8	13′
3′	0,2553052		0,9668605		3′
48′	0,2554458	468,7	0,9668233		12′
3′	0,2555864		0,9667862	123,9	3′
49′	0,2557270		0,9667490	124,0	11′
3′	0,2558676		0,9667118	124,1	3′
50′	0,2560082		0,9666746	124,2	10′
3′	0,2561488	468,6	0,9666373		3′
51′	0,2562894	468,5	0,9666001	124,3	9′
3′	0,2564300	468,6	0,9665628	124,4	3′
52′	0,2565705	468,7	0,9665255	124,5	8′
3′	0,2567111	468,6	0,9664882	124,6	3′
53′	0,2568517	468,5	0,9664508	124,7	7′
3′	0,2569922		0,9664134		3′
54′	0,2571328		0,9663760		6′
3′	0,2572734		0,9663386		3′
55′	0,2574139		0,9663012	124,8	5′
3′	0,2575545	468,4	0,9662638	124,9	3′
56′	0,2576950	468,3	0,9662263	125,0	4′
3′	0,2578355		0,9661888	125,1	3′
57′	0,2579760		0,9661513	125,2	3′
3′	0,2581165	468,4	0,9661137		3′
58′	0,2582570		0,9660762	125,3	2′
3′	0,2583976	468,3	0,9660386		3′
59′	0,2585381	468,2	0,9660010		1′
3′	0,2586785		0,9659634	125,4	3′
60′	0,2588190		0,9659258		0′
	co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,2588190	468,3	0,9659258	125,5	60′	30′	0,2672384	467,2	0,9636305	127,7	30′
30	0,2589595		0,9658882	125,6	30	30	0,2673786	467,1	0,9635916	127,7	30
1′	0,2591000		0,9658505	125,7	59′	31′	0,2675187	467,0	0,9635527	129,8	29′
30	0,2592405		0,9658128		30	30	0,2676588	467,1	0,9635137		30
2′	0,2593810	468,2	0,9657751	125,8	58′	32′	0,2677989	467,2	0,9634748		28′
30	0,2595215		0,9657374		30	30	0,2679391				30
3′	0,2596619		0,9656995	125,9	57′	33′	0,2680792	467,1	0,9634359	129,9	27′
30	0,2598023		0,9656618	126,0	30	30	0,2682193	467,0	0,9633969	130,0	30
4′	0,2599428		0,9656240	126,1	56′	34′	0,2683594		0,9633579	130,1	26′
30	0,2600833	468,1	0,9655861	126,2	30	30	0,2684995		0,9633189	130,2	30
5′	0,2602237	468,0	0,9655483		55′	35′	0,2686396		0,9632799		25′
30	0,2603641		0,9655104		30	30	0,2687797		0,9632408	130,3	30
6′	0,2605045		0,9654726	126,3	54′	36′	0,2689198		0,9632017	130,4	24′
30	0,2606449		0,9654347	126,4	30	30	0,2690599	467,9	0,9631626	130,5	30
7′	0,2607853		0,9653968	126,5	53′	37′	0,2692000	466,8	0,9631236	130,6	23′
30	0,2609257		0,9653589	126,6	30	30	0,2693400		0,9630845	130,7	30
8′	0,2610662		0,9653209	126,7	52′	38′	0,2694801		0,9630455		22′
30	0,2612066		0,9652829		30	30	0,2696202		0,9630065		30
9′	0,2613469		0,9652449	126,8	51′	39′	0,2697602		0,9629675	130,8	21′
30	0,2614873		0,9652069		30	30	0,2699002		0,9629285	130,9	30
10′	0,2616277		0,9651688		50′	40′	0,2700403		0,9628890		20′
30	0,2617681		0,9651308	126,9	30	30	0,2701804		0,9628497	131,0	30
11′	0,2619085	467,9	0,9650927	127,0	49′	41′	0,2703204	466,7	0,9627704	131,1	19′
30	0,2620488	467,8	0,9650546	127,1	30	30	0,2704604		0,9627310	131,2	30
12′	0,2621892		0,9650165	127,2	48′	42′	0,2706004	466,8	0,9626917		18′
30	0,2623295		0,9649784		30	30	0,2707405		0,9626523		30
13′	0,2624699		0,9649402	127,3	47′	43′	0,2708805	466,7	0,9626130	131,3	17′
30	0,2626103		0,9649020	127,4	30	30	0,2710205	466,6	0,9625736	131,4	30
14′	0,2627506	467,7	0,9648638	127,5	46′	44′	0,2711605	466,5	0,9625342	131,5	16′
30	0,2628909		0,9648256	127,6	30	30	0,2713004	466,6	0,9624948	131,6	30
15′	0,2630312		0,9647873	127,7	45′	45′	0,2714404	466,7	0,9624553	131,7	15′
30	0,2631715		0,9647490		30	30	0,2715804	466,6	0,9624158		30
16′	0,2633118		0,9647107		44′	46′	0,2717204	466,5	0,9623763	131,8	14′
30	0,2634521		0,9646724		30	30	0,2718603		0,9623368	131,9	30
17′	0,2635,25		0,9646341	127,8	43′	47′	0,2720003		0,9622972	132,0	13′
30	0,2637328		0,9645958	127,9	30	30	0,2721402		0,9622576	132,1	30
18′	0,2638730		0,9645574	128,0	42′	48′	0,2722802		0,9622180	132,2	12′
30	0,2640133		0,9645190	128,1	30	30	0,2724201		0,9621783		30
19′	0,2641536		0,9644806	128,2	41′	49′	0,2725601		0,9621387		11′
30	0,2642939	467,6	0,9644421		30	30	0,2727000	466,4	0,9620991		30
20′	0,2644342	467,5	0,9644037	128,3	40′	50′	0,2728400	466,3	0,9620594	132,3	10′
30	0,2645744		0,9643652		30	30	0,2729799		0,9620197	132,4	30
21′	0,2647147		0,9643267		39′	51′	0,2731198		0,9619800	132,5	9′
30	0,2648550		0,9642882		30	30	0,2732597		0,9619403	132,6	30
22′	0,2649952	467,4	0,9642497	128,4	38′	52′	0,2733997		0,9619005	132,7	8′
		467,3		128,5							
30	0,2651354		0,9642112	128,6	30	30	0,2735396		0,9618607		30
23′	0,2652757		0,9641726	128,7	37′	53′	0,2736794		0,9618209		7′
30	0,2654159		0,9641340		30	30	0,2738193		0,9617811		30
24′	0,2655561		0,9640954	128,8	36′	54′	0,2739592		0,9617413	132,8	6′
30	0,2656963		0,9640568	128,9	30	30	0,2740991		0,9617015	132,9	30
25′	0,2658366		0,9640181	129,0	35′	55′	0,2742390	466,2	0,9616616	133,0	5′
30	0,2659768		0,9639794		30	30	0,2743788		0,9616217	133,1	30
26′	0,2661170		0,9639407		34′	56′	0,2745187		0,9615818	133,2	4′
30	0,2662572		0,9639020	129,1	30	30	0,2746585		0,9615419		30
27′	0,2663973		0,9638633	129,2	33′	57′	0,2747984		0,9615019	133,3	3′
30	0,2665375		0,9638246		30	30	0,2749383		0,9614619	133,4	30
28′	0,2666777		0,9637858	129,3	32′	58′	0,2750781		0,9614219	133,5	2′
30	0,2668179		0,9637470	129,4	30	30	0,2752179	466,1	0,9613819		30
29′	0,2669581	467,2	0,9637082	129,5	31′	59′	0,2753577	466,0	0,9613418		1′
30	0,2670982		0,9636694	129,6	30	30	0,2754976		0,9613018	133,6	30
30′	0,2672384		0,9636305		30′	60′	0,2756374		0,9612617		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,2756374	466,0	0,9612617	133,7	60′	30′	0,2840153	464,8	0,9588197	137,8	30′
3″	0,2757772	465,7	0,9612216		3″	3″	0,2841547		0,9587783		3″
6′	0,2759170	465,5	0,9611815	133 8	59′	31′	0,2842942		0,9587370		29′
3″	0,2760567	465,9	0,9611414	133,9	3″	3″	0,2844336		0,9586957	137,9	3″
12′	0,2761965	466,0	0,9611012	134,0	58′	32′	0,2845731		0,9586543	138,0	28′
3″	0,2763363	465,9	0,9610610	134,1	3″	3″	0,2847126		0,9586129	138,1	3″
3′	0,2764761	465,8	0,9610208	134,2	57′	33′	0,2848520	464,7	0,9585715	138,2	27′
3″	0,2766158	465,9	0,9609805		3″	3″	0,2849914		0,9585301		3″
4′	0,2767556	466,0	0,9609403		56′	34′	0,2851308		0,9584886	138,3	26′
3″	0,2768954	465,9	0,9609001		3″	3″	0,2852702		0,9584471	138,4	3″
5′	0,2770352	465,8	0,9608598	134,3	55′	35′	0,2854096		0,9584056	138,5	25′
3″	0,2771749		0,9608196	134,4	3″	3″	0,2855490	464,6	0,9583640		3″
6′	0,2773147	465,7	0,9607792	134,5	54′	36′	0,2856884	464,5	0,9583225		24′
3″	0,2774544		0,9607389	134,6	3″	3″	0,2858278		0,9582810	138,6	3″
7′	0,2775941	465,8	0,9606985	134,7	53′	37′	0,2859671		0,9582394	138,7	23′
3″	0,2777338		0,9606581		3″	3″	0,2861064		0,9581978		3″
8′	0,2778736	465,7	0,9606177	134,8	52′	38′	0,2862458		0,9581562	138,8	22′
3″	0,2780133		0,9605773	134,9	3″	3″	0,2863852		0,9581146	138,9	3″
9′	0,2781530		0,9605368	135,0	51′	39′	0,2865246		0,9580729	139,0	21′
3″	0,2782927		0,9604963		3″	3″	0,2866639		0,9580312	139,1	3″
10′	0,2784324		0,9604558		50′	40′	0,2868032		0,9579895	139,2	20′
3″	0,2785721	465,6	0,9604153	135,1	3″	3″	0,2869426	464,4	0,9579477		3″
11′	0,2787118	465,5	0,9603748	135,2	49′	41′	0,2870819	464,3	0,9579060		19′
3″	0,2788514		0,9603342		3″	3″	0,2872212		0,9578643		3″
12′	0,2789911		0,9602937	135,3	48′	42′	0,2873605		0,9578225	139,3	18′
3″	0,2791307		0,9602531	135,4	3″	3″	0,2874998		0,9577807	139,4	3″
13′	0,2792704		0,9602125	135,5	47′	43′	0,2876391		0,9577389	139,5	17′
3″	0,2794101		0,9601719	135,6	3″	3″	0,2877784		0,9576971	139,6	3″
14′	0,2795497		0,9601312	135,7	46′	44′	0,2879177		0,9576552	139,7	16′
3″	0,2796894		0,9600905		3″	3″	0,2880570		0,9576133		3″
15′	0,2798290		0,9600498		45′	45′	0,2881963	464,2	0,9575714	139,8	15′
3″	0,2799687	465,4	0,9600091		3″	3″	0,2883356		0,9575295	139,9	3″
16′	0,2801083	465,3	0,9599684	135,8	44′	46′	0,2884748		0,9574875	140,0	14′
3″	0,2802479		0,9599277	135,9	3″	3″	0,2886140		0,9574455		3″
17′	0,2803875		0,9598869	136,0	43′	47′	0,2887533		0,9574035		13′
3″	0,2805271		0,9598461	136,1	3″	3″	0,2888925		0,9573615	140,1	3″
18′	0,2806667		0,9598053	136,2	42′	48′	0,2890318		0,9573195	140,2	12′
3″	0,2808063		0,9597645		3″	3″	0,2891711	464,1	0,9572774		3″
19′	0,2809459		0,9597236	136,3	41′	49′	0,2893103	464,0	0,9572354	140,3	11′
3″	0,2810855		0,9596827		3″	3″	0,2894495		0,9571933	140,4	3″
20′	0,2812251	465,2	0,9596418	136,4	40′	50′	0,2895887		0,9571512	140,5	10′
3″	0,2813646		0,9596009		3″	3″	0,2897279		0,9571091	140,6	3″
21′	0,2815042		0,9595600	136,5	39′	51′	0,2898671		0,9570669	140,7	9′
3″	0,2816438		0,9595191	136,6	3″	3″	0,2900063		0,9570247		3″
22′	0,2817833		0,9594781	136,7	38′	52′	0,2901455		0,9569825		8′
3″	0,2819228		0,9594371		3″	3″	0,2902847	463,9	0,9569403		3″
23′	0,2820624		0,9593961	136,8	37′	53′	0,2904239	463,8	0,9568981	140,8	7′
3″	0,2822020	465,1	0,9593551	136,9	3″	3″	0,2905631		0,9568559	140,9	3″
24′	0,2823415	465,0	0,9593140	137,0	36′	54′	0,2907022		0,9568136	141,0	5′
3″	0,2824810		0,9592729	137,1	3″	3″	0,2908413		0,9567713	141,1	3″
25′	0,2826205		0,9592318	137,2	35′	55′	0,2909805		0,9567290	141,2	5′
3″	0,2827600		0,9591906		3″	3″	0,2911197		0,9566866		3″
26′	0,2828995		0,9591495		34′	56′	0,2912588		0,9566443		4′
3″	0,2830390		0,9591084		3″	3″	0,2913979		0,9566019	141,3	3″
27′	0,2831785		0,9590672	137,3	33′	57′	0,2915371	463,7	0,9565595		3′
3″	0,2833180	464,9	0,9590260	137,4	3″	3″	0,2916762		0,9565171	141,4	3″
28′	0,2834575	464,8	0,9589848	137,5	32′	58′	0,2918153		0,9564747	141,5	2′
3″	0,2835969		0,9589436	137,6	3″	3″	0,2919544		0,9564323	141,6	3″
29′	0,2837364		0,9589023	137,7	31′	59′	0,2920935		0,9563898	141,7	1′
3″	0,2838758		0,9588610		3″	3″	0,2922326		0,9563473		3″
30′	0,2840153		0,9588197		30′	60′	0,2923717		0,9563048		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,2923717	463,7	0,9563048	141,8	60′	30′	0,3007058	462,3	0,9537169	145,8	30′
3″	0,2925108	463,6	0,9562623	141,9	3″	3″	0,3008448		0,9536732	145,9	3″
1′	0,2926499	463,5	0,9562197	142,0	59′	31′	0,3009839		0,9536294	146,0	29′
3″	0,2927890		0,9561771	142,1	3″	3″	0,3011229		0,9535856	146,1	3″
2′	0,2929280		0,9561345	142,2	58′	32′	0,3012616		0,9535418	146,2	28′
3″	0,2930670		0,9560918		3″	3″	0,3013993		0,9534980		3″
3′	0,2932061		0,9560492		57′	33′	0,3015380	462,2	0,9534541		27′
3″	0,2933452		0,9560065		3″	3″	0,3016767		0,9534102		3″
4′	0,2934842		0,9559639	142,3	56′	34′	0,3018153		0,9533664	146,3	26′
3″	0,2936233		0,9559212	142,4	3″	3″	0,3019539		0,9533225	146,4	3″
5′	0,2937623	463,4	0,9558785	142,5	55′	35′	0,3020926		0,9532786	146,5	25′
3″	0,2939013	463,3	0,9558358	142,6	3″	3″	0,3022313	462,1	0,9532347	146,6	3″
6′	0,2940403		0,9557930	142,7	54′	36′	0,3023699	462,0	0,9531907	146,7	24′
3″	0,2941793		0,9557502		3″	3″	0,3025085	462,1	0,9531467		3″
7′	0,2943183		0,9557074	142,8	53′	37′	0,3026471	462,2	0,9531027	146,8	23′
3″	0,2944573		0,9556645		3″	3″	0,3027858	462,1	0,9530587	146,9	3″
8′	0,2945963		0,9556217		52′	38′	0,3029244	462,0	0,9530146	147,0	22′
3″	0,2947353		0,9555788	142,9	3″	3″	0,3030630		0,9529706		3″
9′	0,2948743	463,2	0,9555360	143,0	51′	39′	0,3032016		0,9529264		21′
3″	0,2950132		0,9554931	143,1	3″	3″	0,3033402	461,9	0,9528823	147,1	3″
10′	0,2951522		0,9554502	143,2	50′	40′	0,3034788	461,8	0,9528382	147,2	20′
3″	0,2952912		0,9554072		3″	3″	0,3036173	461,9	0,9527941		3″
11′	0,2954302		0,9553643	143,3	49′	41′	0,3037559	462,0	0,9527499	147,3	19′
3″	0,2955692		0,9553213	143,4	3″	3″	0,3038945	461,9	0,9527057	147,4	3″
12′	0,2957081		0,9552783	143,5	48′	42′	0,3040331	461,8	0,9526615	147,5	18′
3″	0,2958470		0,9552352		3″	3″	0,3041717		0,9526173	147,6	3″
13′	0,2959859		0,9551922		47′	43′	0,3043102	461,7	0,9525730	147,7	17′
3″	0,2961249	463,1	0,9551492	143,6	3″	3″	0,3044487		0,9525287		3″
14′	0,2962638	463,0	0,9551061	143,7	46′	44′	0,3045872	461,8	0,9524844		16′
3″	0,2964027		0,9550630		3″	3″	0,3047257		0,9524401		3″
15′	0,2965416		0,9550199	143,8	45′	45′	0,3048643	461,7	0,9523958	147,8	15′
3″	0,2966805	462,9	0,9549768	143,9	3″	3″	0,3050028		0,9523515	147,9	3″
16′	0,2968194	462,8	0,9549336	144,0	44′	46′	0,3051413		0,9523071	148,0	14′
3″	0,2969582	462,9	0,9548904	144,1	3″	3″	0,3052798		0,9522627	148,1	3″
17′	0,2970971	463,0	0,9548472		43′	47′	0,3054183		0,9522183	148,2	13′
3″	0,2972360		0,9548040	144,2	3″	3″	0,3055568		0,9521739		3″
18′	0,2973749	462,9	0,9547607		42′	48′	0,3056953		0,9521294	148,3	12′
3″	0,2975137	462,8	0,9547174		3″	3″	0,3058338	461,6	0,9520849		3″
19′	0,2976526		0,9546742	144,3	41′	49′	0,3059723	461,5	0,9520404		11′
3″	0,2977915	462,7	0,9546309	144,4	3″	3″	0,3061108		0,9519959	148,4	3″
20′	0,2979303		0,9545876	144,5	40′	50′	0,3062492		0,9519514	148,5	10′
3″	0,2980691		0,9545443	144,6	3″	3″	0,3063877	461,4	0,9519069	148,6	3″
21′	0,2982079	462,8	0,9545009	144,7	39′	51′	0,3065261	461,3	0,9518623	148,7	9′
3″	0,2983467		0,9544575		3″	3″	0,3066645	461,4	0,9518177		3″
22′	0,2984855	462,7	0,9544141	144,8	38′	52′	0,3068030	461,5	0,9517731	148,8	8′
3″	0,2986244		0,9543707		3″	3″	0,3069414	461,4	0,9517285	148,9	3″
23′	0,2987632		0,9543272		37′	53′	0,3070798	461,3	0,9516838	149,0	7′
3″	0,2989020		0,9542838	144,9	3″	3″	0,3072182		0,9516391	149,1	3″
24′	0,2990408		0,9542403	145,0	36′	54′	0,3073566		0,9515944	149,2	6′
3″	0,2991796	462,6	0,9541968	145,1	3″	3″	0,3074950		0,9515496		3″
25′	0,2993184	462,5	0,9541533	145,2	35′	55′	0,3076334		0,9515049		5′
3″	0,2994571		0,9541098		3″	3″	0,3077718		0,9514602		3″
26′	0,2995959		0,9540662	145,3	34′	56′	0,3079102	461,2	0,9514154	149,3	4′
3″	0,2997347		0,9540226	145,4	3″	3″	0,3080486		0,9513706	149,4	3″
27′	0,2998734		0,9539790	145,5	33′	57′	0,3081869		0,9513258	149,5	3′
3″	0,3000122		0,9539354	145,6	3″	3″	0,3083252		0,9512810		3″
28′	0,3001509		0,9538917	145,7	32′	58′	0,3084636		0,9512361	149,6	2′
3″	0,3002897	462,4	0,9538480		3″	3″	0,3086020		0,9511912	149,7	3″
29′	0,3004284	462,3	0,9538043		31′	59′	0,3087403		0,9511463		1′
3″	0,3005671		0,9537606		3″	3″	0,3088786	461,1	0,9511014		3″
30′	0,3007058		0,9537169		30′	60′	0,3090170		0,9510565		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3090170	461,0	0,9510565	149,8	60′	30′	0,3173047	459,7	0,9483236	153,8	30′
30″	0,3091583		0,9510115	149,9	30″	30″	0,3174492		0,9482775	153,9	30″
1′	0,3092996		0,9509665	150,0	59′	31′	0,3175805		0,9482313	154,0	29′
30″	0,3094409		0,9509216	150,1	30″	30″	0,3177184		0,9481851	154,1	30″
2′	0,3095702		0,9508766	150,2	58′	32′	0,3178563		0,9481389	154,2	28′
30″	0,3097055		0,9508315		30″	30″	0,3179942		0,9480926		30″
3′	0,3098468		0,9507865	150,3	57′	33′	0,3181321		0,9480464	154,3	27′
30″	0,3099801		0,9507414	150,4	30″	30″	0,3182700	459,6	0,9480001	154,4	30″
4′	0,3101234	460,7	0,9506963	150,5	56′	34′	0,3184079	459,5	0,9479538	154,5	26′
30″	0,3102617	460,8	0,9506512		30″	30″	0,3185458		0,9479075		30″
5′	0,3103999		0,9506060		55′	35′	0,3186836		0,9478611		25′
30″	0,3105381		0,9505609	150,6	30″	30″	0,3188215		0,9478148	154,6	30″
6′	0,3106764		0,9505157	150,7	54′	36′	0,3189593		0,9477684	154,7	24′
30″	0,3108147		0,9504705		30″	30″	0,3190972	459,4	0,9477220		30″
7′	0,3109529		0,9504253	150,8	53′	37′	0,3192350	459,3	0,9476756	154,8	23′
30″	0,3110912		0,9503801		30″	30″	0,3193728				30″
8′	0,3112294		0,9503348	150,9	52′	38′	0,3195106	459,4	0,9476292	154,9	22′
30″	0,3113675	460,7	0,9502895	151,0	30″	30″	0,3196485	459,5	0,9475827	155,0	30″
9′	0,3115058		0,9502442		51′	39′	0,3197863	459,4	0,9475362	155,1	21′
30″	0,3116440		0,9501989		30″	30″	0,3199241	459,3	0,9474897	155,2	30″
10′	0,3117822		0,9501535	151,1	50′	40′	0,3200619	459,2	0,9474366		20′
30″	0,3119204		0,9501033	151,2	30″	30″	0,3201997		0,9473500		30″
11′	0,3120586	460,6	0,9500629		49′	41′	0,3203374	459,3	0,9473036	155,3	19′
30″	0,3121967	460,5	0,9500175	151,3	30″	30″	0,3204752		0,9472569	155,4	30″
12′	0,3123349		0,9499721	151,4	48′	42′	0,3206130	459,2	0,9472103	155,5	18′
30″	0,3124731		0,9499267	151,5	30″	30″	0,3207508		0,9471637	155,6	30″
13′	0,3126112		0,9498812	151,6	47′	43′	0,3208885		0,9471170	155,7	17′
30″	0,3127493		0,9498357	151,7	30″	30″	0,3210262		0,9470703		30″
14′	0,3128875		0,9497902	151,8	46′	44′	0,3211640		0,9470236	155,8	16′
30″	0,3130257	460,4	0,9497447		30″	30″	0,3213018	459,1	0,9469769		30″
15′	0,3131638	460,3	0,9496991		45′	45′	0,3214395	459,0	0,9469301		15′
30″	0,3133019	460,4	0,9496535	151,9	30″	30″	0,3215772		0,9468834	155,9	30″
16′	0,3134400	460,5	0,9496080	152,0	44′	46′	0,3217149		0,9468366	156,0	14′
30″	0,3135782	460,4	0,9495624	152,1	30″	30″	0,3218526		0,9467898	156,1	30″
17′	0,3137163	460,3	0,9495168	152,2	43′	47′	0,3219903		0,9467430	156,2	13′
30″	0,3138544		0,9494712		30″	30″	0,3221280	458,9	0,9466962		30″
18′	0,3139925		0,9494255	152,3	42′	48′	0,3222657	458,8	0,9466493	156,3	12′
30″	0,3141305	460,2	0,9493798	152,4	30″	30″	0,3224034	458,9	0,9466024	156,4	30″
19′	0,3142685		0,9493341	152,5	41′	49′	0,3225411	459,0	0,9465555	156,5	11′
30″	0,3144067	460,3	0,9492884		30″	30″	0,3226788	458,9	0,9465086	156,6	30″
20′	0,3145448	460,2	0,9492426		40′	50′	0,3228164	458,8	0,9464615	156,7	10′
30″	0,3146829	460,1	0,9491969	152,6	30″	30″	0,3229541		0,9464146		30″
21′	0,3148209	460,0	0,9491511	152,7	39′	51′	0,3230917		0,9463676		9′
30″	0,3149589	460,1	0,9491053		30″	30″	0,3232293		0,9463206		30″
22′	0,3150969	460,2	0,9490596	152,8	38′	52′	0,3233670	458,7	0,9462736	156,8	8′
30″	0,3152350	460,1	0,9490137	152,9	30″	30″	0,3235046		0,9462266	156,9	30″
23′	0,3153730	460,0	0,9489678	153,0	37′	53′	0,3236422		0,9461795	157,0	7′
30″	0,3155110		0,9489219	153,1	30″	30″	0,3237798		0,9461324	157,1	30″
24′	0,3156490		0,9488760	153,2	36′	54′	0,3239174		0,9460853	157,2	6′
30″	0,3157870		0,9488301		30″	30″	0,3240550		0,9460382		30″
25′	0,3159250		0,9487841		35′	55′	0,3241926		0,9459910		5′
30″	0,3160630		0,9487381		30″	30″	0,3243302	458,6	0,9459439		30″
26′	0,3162010		0,9486922	153,3	34′	56′	0,3244678	458,5	0,9458967	157,3	4′
30″	0,3163390		0,9486462	153,4	30″	30″	0,3246053		0,9458496	157,4	30″
27′	0,3164770	459,9	0,9486002	153,5	33′	57′	0,3247429		0,9458025	157,5	3′
30″	0,3166150	459,8	0,9485542		30″	30″	0,3248805		0,9457554		30″
28′	0,3167529		0,9485081	153,6	32′	58′	0,3250180		0,9457078	157,6	2′
30″	0,3168908		0,9484620	153,7	30″	30″	0,3251556		0,9456605	157,7	30″
29′	0,3170288		0,9484159		31′	59′	0,3252931		0,9456132		1′
30″	0,3171668		0,9483698	153,8	30″	30″	0,3254307	458,4	0,9455659	157,8	30″
30′	0,3173047		0,9483236		30′	60′	0,3255682		0,9455185		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3255682	458,3	0,9455185	157,8	60′	30′	0,3338069	456,8	0,9426415	162,0	30′
3′	0,3257057		0,9454712	157,9	3′	3′	0,3339439	456,9	0,9425929		3′
1′	0,3258432		0,9454238	158,0	57′	31′	0,3340810	457,0	0,9425443		29′
3′	0,3259807		0,9453764	158,1	3′	3′	0,3342181	456,9	0,9424957	162,1	3′
2′	0,3261182	458,2	0,9453290	158,2	58′	32′	0,3343552	456,8	0,9424471	162,2	28′
3′	0,3262557		0,9452815		3′	3′	0,3344922		0,9423984		3′
3′	0,3263932	458,3	0,9452341	158,3	57′	33′	0,3346293		0,9423498	162,3	27′
3′	0,3265307		0,9451866	158,4	3′	3′	0,3347663		0,9423011		3′
4′	0,3266681	458,2	0,9451391	158,5	56′	34′	0,3349034		0,9422524		26′
3′	0,3268055		0,9450915		3′	3′	0,3350404		0,9422037	162,4	3′
5′	0,3269430		0,9450440		55′	35′	0,3351775		0,9421550	162,5	25′
3′	0,3270805		0,9449965	158,6	3′	3′	0,3353145		0,9421063	162,6	3′
6′	0,3272179		0,9449489	158,7	54′	36′	0,3354516	456,7	0,9420575	162,7	24′
3′	0,3273553	458,1	0,9449013		3′	3′	0,3355886		0,9420087		3′
7′	0,3274928	458,0	0,9448537	158,8	53′	37′	0,3357256		0,9419599	162,8	23′
3′	0,3276302		0,9448061	158,9	3′	3′	0,3358626	456,6	0,9419111	162,9	3′
8′	0,3277676		0,9447584	159,0	52′	38′	0,3359996	456,5	0,9418622	163,0	22′
3′	0,3279050		0,9447107	159,1	3′	3′	0,3361365	456,6	0,9418133	163,1	3′
9′	0,3280424		0,9446630	159,2	51′	39′	0,3362735	456,7	0,9417644	163,2	21′
3′	0,3281798	457,9	0,9446153		3′	3′	0,3364105	456,6	0,9417154		3′
10′	0,3283172	457,8	0,9445675		50′	40′	0,3365475	456,5	0,9416665	163,3	20′
3′	0,3284546		0,9445197		3′	3′	0,3366845		0,9416175		3′
11′	0,3285919		0,9444720	159,3	49′	41′	0,3368214		0,9415685		19′
3′	0,3287292		0,9444242	159,4	3′	3′	0,3369584	456,4	0,9415195	163,4	3′
12′	0,3288666		0,9443764	159,5	48′	42′	0,3370953	456,3	0,9414705	163,5	18′
3′	0,3290040		0,9443285	159,6	3′	3′	0,3372322		0,9414215	163,6	3′
13′	0,3291413		0,9442807	159,7	47′	43′	0,3373691		0,9413724	163,7	17′
3′	0,3292786		0,9442328		3′	3′	0,3375060		0,9413233		3′
14′	0,3294160	457,7	0,9441849	159,8	46	44′	0,3376429		0,9412742		16′
3′	0,3295533		0,9441370		3′	3′	0,3377798		0,9412251		3′
15′	0,3296906		0,9440890		45′	45′	0,3379167		0,9411760	163,8	15′
3′	0,3298280		0,9440411		3′	3′	0,3380536		0,9411268	163,9	3′
16′	0,3299653		0,9439931	159,9	44′	46′	0,3381905	456,2	0,9410777	164,0	14′
3′	0,3301026		0,9439451	160,0	3′	3′	0,3383273		0,9410285	164,1	3′
17′	0,3302398		0,9438971	160,1	43′	47′	0,3384642		0,9409793		13′
3′	0,3303771	457,6	0,9438490	160,2	3′	3′	0,3386011		0,9409301	164,2	3′
18′	0,3305144	457,5	0,9438010		42′	48′	0,3387379		0,9408808		12′
3′	0,3306517		0,9437529	160,3	3′	3′	0,3388748		0,9408315	164,3	3′
19′	0,3307889		0,9437048	160,4	41′	49′	0,3390116		0,9407822	164,4	11′
3′	0,3309261		0,9436567	160,5	3′	3′	0,3391484	456,1	0,9407329	164,5	3′
20′	0,3310634		0,9436085	160,6	40′	50′	0,3392852		0,9406835		10′
3′	0,3312006		0,9435603	160,7	3′	3′	0,3394220	456,0	0,9406342	164,6	3′
21′	0,3313379	457,4	0,9435121		39′	51′	0,3395589		0,9405848	164,7	9′
3′	0,3314751	457,3	0,9434639		3′	3′	0,3396957	455,9	0,9405354		3′
22′	0,3316123		0,9434157	160,8	38′	52′	0,3398325	455,8	0,9404860	164,8	8′
3′	0,3317495		0,9433675		3′	3′	0,3399693		0,9404366	164,9	3′
23′	0,3318867		0,9433192	160,9	37′	53′	0,3401060		0,9403871	165,0	7′
3′	0,3320239		0,9432709	161,0	3′	3′	0,3402428		0,9403376	165,1	3′
24′	0,3321611		0,9432226		36′	54′	0,3403795		0,9402881	165,2	6′
3′	0,3322983		0,9431743	161,1	3′	3′	0,3405164		0,9402386		3′
25′	0,3324355	457,2	0,9431260		35′	55′	0,3406531		0,9401890		5′
3′	0,3325726		0,9430777	161,2	3′	3′	0,3407898		0,9401394		3′
26′	0,3327098		0,9430293	161,3	34′	56′	0,3409265	455,7	0,9400899	165,3	4′
3′	0,3328470		0,9429809	161,4	3′	3′	0,3410633		0,9400403	165,4	3′
27′	0,3329841		0,9429325	161,5	33′	57′	0,3412000		0,9399907	165,5	3′
3′	0,3331212		0,9428841	161,6	3′	3′	0,3413367		0,9399411	165,6	3′
28′	0,3332584		0,9428356	161,7	32′	58′	0,3414734		0,9398914	165,7	2′
3′	0,3333955	457,1	0,9427871		3′	3′	0,3416101		0,9398417		3′
29′	0,3335326	457,0	0,9427386	161,8	31′	59′	0,3417468		0,9397920		1′
3′	0,3336698	456,9	0,9426901	161,9	3′	3′	0,3418835	455,6	0,9397423		3′
30′	0,3338069		0,9426415		30′	60′	0,3420201		0,9396926		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3420201	455,5	0,9396926	165,8	60′	30′	0,3502074	454,0	0,9366722	169,8	30′
3′	0,3421563		0,9396429	165,9	57′	31′	0,3503436	454,1	0,9366213	169,9	29′
1′	0,3422925		0,9395931	166,0	54′	32′	0,3504798	454,0	0,9365703	170,0	28′
3′	0,3424302		0,9395433	166,1	51′	33′	0,3506161		0,9365193	170,1	27′
2′	0,3425668		0,9394935	166,2	48′	34′	0,3507523		0,9364683	170,2	
3′	0,3427034	455,4	0,9394436	166,3	45′	35′	0,3508885	453,9	0,9364172	170,3	26′
3′	0,3428400	455,3	0,9393938		42′	36′	0,3510246	453,8	0,9363662		25′
3′	0,3429767		0,9393439		39′	37′	0,3511608		0,9363151		24′
4′	0,3431133		0,9392940		36′	38′	0,3512970		0,9362640		23′
3′	0,3432499		0,9392441		33′	39′	0,3514331		0,9362129		
5′	0,3433865		0,9391942	166,4	30′	40′	0,3515693		0,9361618	170,4	22′
3′	0,3435231		0,9391443	166,5	27′	41′	0,3517055		0,9361107	170,5	21′
6′	0,3436597		0,9390943	166,6	24′	42′	0,3518416		0,9360595	170,6	20′
3′	0,3437963		0,9390443	166,7	21′	43′	0,3519778		0,9360083	170,7	19′
7′	0,3439329	455,2	0,9389943	166,8	18′	44′	0,3521139		0,9359571	170,8	
3′	0,3440695		0,9389443	166,9	15′	45′	0,3522501	453,7	0,9359059		18′
8′	0,3442060		0,9388942	167,0	12′	46′	0,3523862		0,9358546		17′
3′	0,3443426		0,9388441	167,1	9′	47′	0,3525223		0,9358034	170,9	16′
9′	0,3444791		0,9387940	167,2	6′	48′	0,3526584		0,9357521	171,0	15′
3′	0,3446156	455,1	0,9387439		3′	49′	0,3527945	453,6	0,9357008	171,1	14′
10′	0,3447521	455,0	0,9386937		60′	50′	0,3529306	453,5	0,9356495	171,2	13′
3′	0,3448887		0,9386435		57′	51′	0,3530667		0,9355981		12′
11′	0,3450252		0,9385934	167,3	54′	52′	0,3532027		0,9355468	171,3	11′
3′	0,3451617		0,9385432		51′	53′	0,3533388		0,9354954	171,4	10′
12′	0,3452982		0,9384930		48′	54′	0,3534748		0,9354440	171,5	9′
3′	0,3454347		0,9384428	167,4	45′	55′	0,3536109		0,9353926		8′
13′	0,3455712		0,9383925	167,5	42′	56′	0,3537469		0,9353411		7′
3′	0,3457077	454,9	0,9383422	167,6	39′	57′	0,3538830	453,4	0,9352897	171,6	6′
14′	0,3458441	454,8	0,9382919	167,7	36′	58′	0,3540190	453,3	0,9352382	171,7	5′
3′	0,3459806		0,9382416		33′	59′	0,3541550		0,9351867		4′
15′	0,3461171		0,9381913	167,8	30′	60′	0,3542910		0,9351352	171,8	3′
3′	0,3462536		0,9381410	167,9	27′	61′	0,3544270		0,9350837	171,9	2′
16′	0,3463900		0,9380906	168,0	24′	62′	0,3545630		0,9350321	172,0	1′
3′	0,3465264		0,9380402	168,1	21′	63′	0,3546990		0,9349806	172,1	0′
17′	0,3466628	454,7	0,9379898	168,2	18′	64′	0,3548350		0,9349289	172,2	
3′	0,3467992		0,9379393	168,3	15′	65′	0,3549710	453,2	0,9348772		59′
18′	0,3469357		0,9378889		12′	66′	0,3551070		0,9348256		58′
3′	0,3470721		0,9378384		9′	67′	0,3552429		0,9347740		57′
19′	0,3472085		0,9377879		6′	68′	0,3553789		0,9347223	172,3	56′
3′	0,3473448		0,9377374	168,4	3′	69′	0,3555149	453,1	0,9346706	172,4	55′
20′	0,3474812	454,5	0,9376869	168,5	60′	70′	0,3556508	453,0	0,9346189	172,5	54′
3′	0,3476176		0,9376364	168,6	57′	71′	0,3557867		0,9345672	172,6	53′
21′	0,3477540		0,9375858	168,7	54′	72′	0,3559226		0,9345154	172,7	52′
3′	0,3478903		0,9375352	168,8	51′	73′	0,3560585		0,9344636		51′
22′	0,3480267		0,9374846		48′	74′	0,3561944		0,9344118		50′
3′	0,3481631		0,9374340	168,9	45′	75′	0,3563303		0,9343100		49′
23′	0,3482994		0,9373833	169,0	42′	76′	0,3564662		0,9343082	172,8	48′
3′	0,3484357	454,4	0,9373326		39′	77′	0,3566021	452,9	0,9342564	172,9	47′
24′	0,3485720	454,3	0,9372819		36′	78′	0,3567380	452,8	0,9342045	173,0	46′
3′	0,3487083		0,9372312	169,1	33′	79′	0,3568739		0,9341526	173,1	45′
25′	0,3488447		0,9371805	169,2	30′	80′	0,3570097		0,9341007	173,2	44′
3′	0,3489810		0,9371298		27′	81′	0,3571456		0,9340488		43′
26′	0,3491173		0,9370790	169,3	24′	82′	0,3572814		0,9339968	173,3	42′
3′	0,3492536		0,9370282	169,4	21′	83′	0,3574173		0,9339448	173,4	41′
27′	0,3493898	454,2	0,9369774	169,5	18′	84′	0,3575531		0,9338928	173,5	40′
3′	0,3495261		0,9369265		15′	85′	0,3576890		0,9338407		39′
28′	0,3496624		0,9368757		12′	86′	0,3578248	452,7	0,9337887		38′
3′	0,3497987		0,9368249	169,6	9′	87′	0,3579606	452,6	0,9337367		37′
29′	0,3499349		0,9367740	169,7	6′	88′	0,3580964	452,5	0,9336846	173,7	36′
3′	0,3500712		0,9367231		3′	89′	0,3582322	452,6	0,9336326		35′
30′	0,3502074		0,9366722		60′	90′	0,3583679		0,9335804		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3583679	452,7	0,9335804	173,8	60′	30′	0,3666012	451,0	0,9304175	177,7	30′
3″	0,3585037	452,6	0,9335283	173,9	3″	3″	0,3666366		0,9303642		3″
1′	0,3586395	452,5	0,9334761	174,0	59′	31′	0,3667719		0,9303109	177,8	29′
3″	0,3587753		0,9334239		3″	3″	0,3669072		0,9302576		3″
2′	0,3589110		0,9333717		58′	32′	0,3670425		0,9302042	177,9	28′
3″	0,3590467		0,9333195	174,1	3″	3″	0,3671778	450,9	0,9301508	178,0	3″
3′	0,3591825		0,9332673	174,2	57′	33′	0,3673130	450,8	0,9300974	178,1	27′
3″	0,3593182		0,9332151		3″	3″	0,3674483		0,9300440	178,2	3″
4′	0,3594540	452,4	0,9331628	174,3	56′	34′	0,3675836		0,9299905		26′
3″	0,3595897	452,3	0,9331105	174,4	3″	3″	0,3677189		0,9299370	178,3	3″
5′	0,3597254		0,9330582	174,5	55′	35′	0,3678541		0,9298835		25′
3″	0,3598611		0,9330059	174,6	3″	3″	0,3679894		0,9298300	178,4	3″
6′	0,3599968		0,9329535	174,7	54′	36′	0,3681246	450,7	0,9297765	178,5	24′
3″	0,3601325		0,9329011		3″	3″	0,3682598		0,9297230	178,6	3″
7′	0,3602682	452,2	0,9328487		53′	37′	0,3683950		0,9296694	178,7	23′
3″	0,3604039		0,9327963		3″	3″	0,3685302		0,9296158		3″
8′	0,3605395		0,9327439	174,8	52′	38′	0,3686654		0,9295622	178,8	22′
3″	0,3606751		0,9326915	174,9	3″	3″	0,3688006		0,9295086		3″
9′	0,3608108		0,9326390		51′	39′	0,3689358		0,9294549	179,9	21′
3″	0,3609465	452,1	0,9325865	175,0	3″	3″	0,3690710	450,6	0,9294012		3″
10′	0,3610821	452,0	0,9325340	175,1	50′	40′	0,3692061	450,5	0,9293475		20′
3″	0,3612177	452,1	0,9324815	175,2	3″	3″	0,3693413		0,9292938		3″
11′	0,3613534	452,2	0,9324289		49′	41′	0,3694765		0,9292401	179,1	19′
3″	0,3614890	452,1	0,9323763		3″	3″	0,3696117		0,9291864	179,2	3″
12′	0,3616246	452,0	0,9323238	175,3	48′	42′	0,3697468	450,4	0,9291326		18′
3″	0,3617602	451,9	0,9322712	175,4	3″	3″	0,3698819	450,3	0,9290788	179,3	3″
13′	0,3618958	451,8	0,9322186	175,5	47′	43′	0,3700170		0,9290250	179,4	17′
3″	0,3620314		0,9321660	175,6	3″	3″	0,3701521		0,9289712	179,5	3″
14′	0,3621669		0,9321133	175,7	46′	44′	0,3702872		0,9289173	179,6	16′
3″	0,3623025		0,9320606		3″	3″	0,3704223		0,9288634	179,7	3″
15′	0,3624380		0,9320079	175,8	45′	45′	0,3705574		0,9288095		15′
3″	0,3625735		0,9319552	175,9	3″	3″	0,3706925		0,9287556		3″
16′	0,3627091		0,9319024		44′	46′	0,3708276	450,2	0,9287017	179,8	14′
3″	0,3628447		0,9318496	176,0	3″	3″	0,3709627		0,9286478		3″
17′	0,3629802	451,7	0,9317968		43′	47′	0,3710977		0,9285938	179,9	13′
3″	0,3631157		0,9317440	176,1	3″	3″	0,3712327		0,9285398	180,0	3″
18′	0,3632512		0,9316912	176,2	42′	48′	0,3713678		0,9284858	180,1	12′
3″	0,3633867		0,9316383		3″	3″	0,3715029		0,9284318	180,2	3″
19′	0,3635222		0,9315855	176,3	41′	49′	0,3716379		0,9283777		11′
3″	0,3636577	451,6	0,9315326	176,4	3″	3″	0,3717729	450,1	0,9283236		3″
20′	0,3637932	451,5	0,9314797	176,5	40′	50′	0,3719079	450,0	0,9282696	180,3	10′
3″	0,3639287		0,9314268		3″	3″	0,3720429		0,9282155	180,4	3″
21′	0,3640641		0,9313738		39′	51′	0,3721780		0,9281614	180,5	9′
3″	0,3641996		0,9313209	176,6	3″	3″	0,3723130	449,9	0,9281073	180,6	3″
22′	0,3643351		0,9312679	176,7	38′	52′	0,3724479	449,8	0,9280531	180,7	8′
3″	0,3644705		0,9312149		3″	3″	0,3725829		0,9279989		3″
23′	0,3646059	451,4	0,9311619	176,8	37′	53′	0,3727179		0,9279447	180,8	7′
3″	0,3647414	451,3	0,9311089		3″	3″	0,3728529		0,9278904		3″
24′	0,3648768		0,9310558	176,9	36′	54′	0,3729878		0,9278362		6′
3″	0,3650122		0,9310027	177,0	3″	3″	0,3731228		0,9277820	180,9	3″
25′	0,3651476		0,9309496	177,1	35′	55′	0,3732577	449,7	0,9277277		5′
3″	0,3652830		0,9308964	177,2	3″	3″	0,3733926		0,9276734	181,0	3″
26′	0,3654184		0,9308433		34′	56′	0,3735275		0,9276191	181,1	4′
3″	0,3655537		0,9307901		3″	3″	0,3736624		0,9275648	181,2	3″
27′	0,3656891	451,2	0,9307370	177,3	33′	57′	0,3737973		0,9275104	181,3	3′
3″	0,3658245		0,9306838		3″	3″	0,3739322		0,9274560		3″
28′	0,3659599		0,9306306	177,4	32′	58′	0,3740671		0,9274016		2′
3″	0,3660953		0,9305774	177,5	3″	3″	0,3742020	449,6	0,9273472	181,4	3″
29′	0,3662306		0,9305241	177,6	31′	59′	0,3743369	449,5	0,9272928	181,5	1′
3″	0,3663659		0,9304708	177,7	3″	3″	0,3744718		0,9272384	181,6	3″
30′	0,3665012	451,1	0,9304175		30′	60′	0,3746066		0,9271839		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3746055	449,5	0,9271839	181,7	60′	30′	0,3826834	448,0	0,9238795	185,7	30′
30	0,3747115	449,4	0,9271294		30	30	0,3828178	447,9	0,9238238		30
1′	0,3748173	449,3	0,9270749	181,8	59′	31′	0,3829522	447,8	0,9237681		29′
30	0,3750111	449,4	0,9270204	181,9	30	32	0,3830866		0,9237124		30
2′	0,3751167	449,5	0,9269658	182,0	58′	32′	0,3832209	447,7	0,9236567	185,8	28′
30	0,3752898	449,4	0,9269112	182,1	30	33	0,3833552		0,9236010	185,9	30
3′	0,3754166	449,3	0,9268566	182,2	57′	33′	0,3834895	447,8	0,9235452	186,0	27′
30	0,3755624		0,9268020		30	34	0,3836238		0,9234894	186,1	30
4′	0,3756882	449,2	0,9267473		56′	34′	0,3837582	447,7	0,9234336	186,2	26′
30	0,3758200		0,9266926		30	35	0,3838925	447,6	0,9233778		30
5′	0,3759547	449,3	0,9266380	182,3	55′	35′	0,3840268	447,5	0,9233219		25′
30	0,3760893		0,9265833	182,4	30	36	0,3841610	447,6	0,9232660		30
6′	0,3762240	449,2	0,9265286	182,5	54′	36′	0,3842953	447,7	0,9232102	186,3	24′
30	0,3763587	449,1	0,9264738		30	37	0,3844296	447,6	0,9231543	186,4	30
7′	0,3764933	449,0	0,9264191		53′	37′	0,3845639	447,5	0,9230984	186,5	23′
30	0,3766285	449,1	0,9263644	182,6	30	38	0,3846982	447,4	0,9230425	186,6	30
8′	0,3767632	449,2	0,9263096	182,7	52′	38′	0,3848324	447,3	0,9229865	186,7	22′
30	0,3768980	449,1	0,9262548		30	39	0,3849666	447,4	0,9229305		30
9′	0,3770327	449,0	0,9262000	182,8	51′	39′	0,3851008	447,5	0,9228745	186,8	21′
30	0,3771674	448,9	0,9261452	182,9	30	40	0,3852351	447,4	0,9228185		30
10′	0,3773021	448,8	0,9260903	183,0	50′	40′	0,3853693	447,3	0,9227624		20′
30	0,3774367	448,9	0,9260354	183,1	30	41	0,3855035		0,9227064	186,9	30
11′	0,3775714	449,0	0,9259805	183,2	49′	41′	0,3856377	447,2	0,9226503	187,0	19′
30	0,3777061	448,9	0,9259255		30	42	0,3857718		0,9225942	187,1	30
12′	0,3778405	448,8	0,9258706	183,3	48′	42′	0,3859060	447,3	0,9225381	187,2	18′
30	0,3779752		0,9258156		30	43	0,3860402		0,9224820		30
13′	0,3781101		0,9257606		47′	43′	0,3861744	447,2	0,9224258	187,3	17′
30	0,3782447		0,9257056	183,4	30	44	0,3863086		0,9223696	187,4	30
14′	0,3783794	448,7	0,9256505	183,5	46′	44′	0,3864427		0,9223134	187,5	16′
30	0,3785140		0,9255955	183,6	30	45	0,3865769	447,1	0,9222571		30
15′	0,3786486		0,9255405	183,7	45′	45′	0,3867110	447,0	0,9222009		15′
30	0,3787832		0,9254854		30	46	0,3868451		0,9221447		30
16′	0,3789178		0,9254303	183,8	44′	46′	0,3869792		0,9220884	187,7	14′
30	0,3790524		0,9253752		30	47	0,3871133		0,9220321		30
17′	0,3791870		0,9253200		43′	47′	0,3872474		0,9219758	187,8	13′
30	0,3793216	448,6	0,9252647	183,9	30	48	0,3873815	446,9	0,9219195	187,9	30
18′	0,3794562	448,5	0,9252095	184,0	42′	48′	0,3875156	446,8	0,9218631	188,0	12′
30	0,3795907		0,9251542	184,1	30	49	0,3876497		0,9218067		30
19′	0,3797253		0,9250989	184,2	41′	49′	0,3877837		0,9217503		11′
30	0,3798599	448,4	0,9250441		30	50	0,3879178		0,9216939	188,1	30
20′	0,3799944	448,3	0,9249888	184,3	40′	50′	0,3880518		0,9216375	188,2	10′
30	0,3801289		0,9249335	184,4	30	51	0,3881858		0,9215811		30
21′	0,3802634		0,9248782	184,5	39′	51′	0,3883197		0,9215246	188,3	9′
30	0,3803979		0,9248229		30	52	0,3884537		0,9214681	188,4	30
22′	0,3805324		0,9247675		38′	52′	0,3885880	446,7	0,9214116	188,5	8′
30	0,3806669		0,9247122	184,6	30	53	0,3887220	446,6	0,9213551		30
23′	0,3808014		0,9246568	184,7	37′	53′	0,3888560	446,5	0,9212985		7′
30	0,3809359		0,9246014		30	54	0,3889900	446,6	0,9212420	188,6	30
24′	0,3810704	448,2	0,9245460	184,8	36′	54′	0,3891240	446,7	0,9211854	188,7	6′
30	0,3812048		0,9244906	184,9	30	55	0,3892580	446,6	0,9211288		30
25′	0,3813393		0,9244351	185,0	35′	55′	0,3893919	446,5	0,9210722	188,8	5′
30	0,3814738	448,1	0,9243796		30	56	0,3895258		0,9210156	188,9	30
26′	0,3816082	448,0	0,9243241		34′	56′	0,3896598		0,9209589	189,0	4′
30	0,3817426	448,1	0,9242685	185,1	30	57	0,3897938	446,4	0,9209022	189,1	30
27′	0,3818770	448,2	0,9242131	185,2	33′	57′	0,3899277	446,3	0,9208455	189,2	3′
30	0,3820115	448,1	0,9241575		30	58	0,3900616		0,9207888		30
28′	0,3821459	448,0	0,9241020	185,3	32′	58′	0,3901955		0,9207320		2′
30	0,3822803	447,9	0,9240464	185,4	30	59	0,3903294		0,9206752		30
29′	0,3824147	447,8	0,9239908	185,5	31′	59′	0,3904633		0,9206185	189,3	1′
30	0,3825491	447,9	0,9239352	185,6	30	60	0,3905972		0,9205617	189,4	30
30′	0,3826834		0,9238795		30′	60′	0,3907311		0,9205049		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″				sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,3907311	446,3	0,9205049	189,5	60′	30′	30′	0,3987491	444,5	0,9170601	193,5	30′
3″	0,3908650	446,2	0,9204481	189,6	3″	3″	3″	0,3988825		0,9170021		3″
1′	0,3909989		0,9203912	189,7	59′	31′	29′	0,3990158		0,9169440		29′
3″	0,3911328		0,9203343		3″	3″	3″	0,3991491		0,9168860		3″
2′	0,3912666		0,9202774	189,8	58′	32′	28′	0,3992825		0,9168279		28′
3″	0,3914005	446,1	0,9202204		3″	3″	3″	0,3994159	444,4	0,9167699	193,6	3″
3′	0,3915343	446,0	0,9201635		57′	33′	27′	0,3995492	444,3	0,9167118	193,8	27′
3″	0,3916681		0,9201066	189,9	3″	3″	3″	0,3996825		0,9166537		3″
4′	0,3918019		0,9200495	190,0	56′	34′	26′	0,3998158		0,9165955	193,9	26′
3″	0,3919357		0,9199926	190,1	3″	3″	3″	0,3999492		0,9165373	194,0	3″
5′	0,3920695		0,9199355	190,2	55′	35′	25′	0,4000825		0,9164791		25
3″	0,3922033		0,9198785		3″	3″	3″	0,4002158		0,9164209	194,1	3″
6′	0,3923371		0,9198215	190,3	54′	36′	24′	0,4003490		0,9163627	194,2	24′
3″	0,3924709	445,9	0,9197644		3″	3″	3″	0,4004823		0,9163044		3″
7′	0,3926047	445,8	0,9197073		53′	37′	23′	0,4006156	444,2	0,9162462		23′
3″	0,3927385		0,9196502	190,4	3″	3″	3″	0,4007489		0,9161880	194,3	3″
8′	0,3928722		0,9195931	190,5	52′	38′	22′	0,4008821		0,9161297	194,5	22′
3″	0,3930060		0,9195360	190,6	3″	3″	3″	0,4010154	444,1	0,9160715		3″
9′	0,3931397	445,7	0,9194788	190,7	51′	39′	21′	0,4011486	444,0	0,9160130		21′
3″	0,3932734		0,9194216	190,7	3″	3″	3″	0,4012818		0,9159547	194,6	3″
10′	0,3934071		0,9193644	190,8	50′	40′	20′	0,4014150		0,9158963	194,7	20′
3″	0,3935408		0,9193072	190,9	3″	3″	3″	0,4015482		0,9158377		3″
11′	0,3936745		0,9192499	191,0	49′	41′	19′	0,4016814		0,9157795	194,8	19′
3″	0,3938082		0,9191926		3″	3″	3″	0,4018146	443,9	0,9157210	194,9	3″
12′	0,3939419		0,9191353		48′	42′	18′	0,4019478	443,8	0,9156626	195,0	18′
3″	0,3940756	445,6	0,9190780	191,1	3″	3″	3″	0,4020810		0,9156041		3″
13′	0,3942093	445,5	0,9190207	191,2	47′	43′	17′	0,4022141		0,9155456	195,1	17′
3″	0,3943430		0,9189634		3″	3″	3″	0,4023473		0,9154871		3″
14′	0,3944766		0,9189060	191,3	46′	44′	16′	0,4024804		0,9154286	195,2	16′
3″	0,3946103	445,4	0,9188486	191,4	3″	3″	3″	0,4026136		0,9153700	195,2	3″
15′	0,3947439	445,3	0,9187912	191,5	45′	45′	15′	0,4027467	443,7	0,9153115	195,3	15′
3″	0,3948775		0,9187338		3″	3″	3″	0,4028798		0,9152529	195,4	3″
16′	0,3950111		0,9186763		44′	46′	14′	0,4030129		0,9151943	195,5	14′
3″	0,3951447		0,9186189	191,6	3″	3″	3″	0,4031460		0,9151357		3″
17′	0,3952783		0,9185614	191,7	43′	47′	13′	0,4032791		0,9150770		13′
3″	0,3954119		0,9185039		3″	3″	3″	0,4034122	443,6	0,9150184	195,6	3″
18′	0,3955455		0,9184464	191,8	42′	48′	12′	0,4035453	443,5	0,9149597	195,8	12′
3″	0,3956791		0,9183889	191,9	3″	3″	3″	0,4036784		0,9149010		3″
19′	0,3958127	445,2	0,9183313		41′	49′	11′	0,4038114		0,9148422		11′
3″	0,3959463	445,1	0,9182737	192,0	3″	3″	3″	0,4039444		0,9147834		3″
20′	0,3960798	445,0	0,9182161		40′	50′	10′	0,4040775		0,9147247		10′
3″	0,3962133	445,1	0,9181585		3″	3″	3″	0,4042106	443,4	0,9146660	196,0	3″
21′	0,3963468	445,2	0,9181009	192,2	39′	51′	9′	0,4043436	443,3	0,9146072	196,2	9′
3″	0,3964804	445,1	0,9180432	192,3	3″	3″	3″	0,4044766		0,9145484		3″
22′	0,3966139	445,0	0,9179855		38′	52′	8′	0,4046096		0,9144895		8′
3″	0,3967474		0,9179278	192,4	3″	3″	3″	0,4047426		0,9144307		3″
23′	0,3968809		0,9178701	192,5	37′	53′	7′	0,4048756		0,9143718	196,3	7′
3″	0,3970144	444,9	0,9178124		3″	3″	3″	0,4050086		0,9143129	196,4	3″
24′	0,3971479	444,8	0,9177546		36′	54′	6′	0,4051416	443,2	0,9142540	196,5	6′
3″	0,3972814		0,9176969	192,7	3″	3″	3″	0,4052746		0,9141951	196,6	3″
25′	0,3974148		0,9176391	192,8	35′	55′	5′	0,4054075		0,9141361	196,7	5′
3″	0,3975483		0,9175813		3″	3″	3″	0,4055404		0,9140771		3″
26′	0,3976818		0,9175234		34′	56′	4′	0,4056734		0,9140181	196,8	4′
3″	0,3978152		0,9174656		3″	3″	3″	0,4058064	443,1	0,9139591		3″
27′	0,3979486		0,9174077	192,9	33′	57′	3′	0,4059393	443,0	0,9138999		3′
3″	0,3980821		0,9173498	193,0	3″	3″	3″	0,4060722		0,9138409	196,9	3″
28′	0,3982155	444,7	0,9172919	193,2	32′	58′	2′	0,4062051		0,9137818	197,0	2′
3″	0,3983489		0,9172340		3″	3″	3″	0,4063380	442,9	0,9137226	197,1	3″
29′	0,3984823		0,9171760		31′	59′	1′	0,4064709	442,8	0,9136635	197,2	1′
3″	0,3986157	444,6	0,9171181	193,4	3″	3″	3″	0,4066037	442,9	0,9136044		3″
30′	0,3987491		0,9170601		30′	60′	0′	0,4067366		0,9135452		0′
	co-sin.	10″ diff.	sin.	10″ diff.				co-sin.	10″ diff.	sin.	diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4067366	443,0	0,9135454	197,2	60′	30′	0,4146232	441,2	0,9099613	201,2	30′
30	0,4068808	442,9	0,9134964		30	30	0,4148672		0,9099009		30
1′	0,4070244	442,8	0,9134471	197,3	59′	31′	0,4149679		0,9098406	201,3	29′
30	0,4071673		0,9133979	197,4	30	30	0,4150903	441,1	0,9097802		30
2′	0,4072681	442,7	0,9133087	197,5	58′	32′	0,4152226	441,0	0,9097198		28′
30	0,4074009		0,9132495	197,6	30	30	0,4153549	440,9	0,9096594	201,4	30
3′	0,4075337		0,9131902	197,7	57′	33′	0,4154872	440,8	0,9095990	201,5	27′
30	0,4076665		0,9131309		30	30	0,4156199	440,9	0,9095386	201,6	30
4′	0,4077993		0,9130716	197,8	56′	34′	0,4157517	441,0	0,9094781	201,7	26′
30	0,4079321		0,9130123		30	30	0,4158840	440,9	0,9094176		30
5′	0,4080649		0,9129527		55′	35′	0,4160163	440,8	0,9093571		25′
30	0,4081977	442,6	0,9128932	197,9	30	30	0,4161486		0,9092966		30
6′	0,4083305	442,5	0,9128312	198,0	54′	36′	0,4162838		0,9092361	201,8	24′
30	0,4084633		0,9127748	198,1	30	30	0,4164130		0,9091756	201,9	30
7′	0,4085960		0,9127154	198,2	53′	37′	0,4165453	440,7	0,9091150	202,0	23′
30	0,4087288	442,4	0,9126560	198,3	30	30	0,4166775		0,9090544	202,1	30
8′	0,4088615	442,3	0,9125965		52′	38′	0,4168097		0,9089938	202,2	22′
30	0,4089942		0,9125370	198,4	30	30	0,4169419		0,9089332		30
9′	0,4091269		0,9124775	198,5	51′	39′	0,4170741		0,9088725	202,3	21′
30	0,4092595		0,9124180		30	30	0,4172063	440,6	0,9088118		30
10′	0,4093923		0,9123584		50′	40′	0,4173385	440,5	0,9087511		20′
30	0,4095250		0,9122989	198,6	30	30	0,4174707		0,9086904	202,4	30
11′	0,4096577	442,2	0,9122393	198,7	49′	41′	0,4176028		0,9086297	202,5	19′
30	0,4097904		0,9121797		30	30	0,4177350	440,4	0,9085690	202,6	30
12′	0,4099230		0,9121201	198,8	48′	42′	0,4178671	440,3	0,9085082	202,7	18′
30	0,4100557		0,9120605	198,9	30	30	0,4179992	440,4	0,9084474		30
13′	0,4101883		0,9120008	199,0	47′	43′	0,4181313	440,5	0,9083866	202,8	17′
30	0,4103210		0,9119411		30	30	0,4182635	440,3	0,9083258		30
14′	0,4104536		0,9118814		46′	44′	0,4183956	440,2	0,9082649		16′
30	0,4105863	442,1	0,9118217		30	30	0,4185275		0,9082041	202,9	30
15′	0,4107189	442,0	0,9117620	199,2	45′	45′	0,4186597	440,3	0,9081432	203,0	15′
30	0,4108515	441,9	0,9117023		30	30	0,4187918	440,2	0,9080823	203,1	30
16′	0,4109841	441,8	0,9116425	199,3	44′	46′	0,4189239		0,9080214	203,2	14′
30	0,4111166	441,9	0,9115827	199,4	30	30	0,4190560		0,9079605		30
17′	0,4112492	442,0	0,9115229	199,5	43′	47′	0,4191880		0,9078995	203,3	13′
30	0,4113818		0,9114630		30	30	0,4193201	440,1	0,9078385	203,4	30
18′	0,4115144	441,9	0,9114032		42′	48′	0,4194521	440,0	0,9077775	203,5	12′
30	0,4116470	441,8	0,9113433	199,6	30	30	0,4195841		0,9077164		30
19′	0,4117795		0,9112835	199,7	41′	49′	0,4197161		0,9076554		11′
30	0,4119120	441,7	0,9112236		30	30	0,4198481		0,9075944	203,6	30
20′	0,4120445	441,8	0,9111637	199,8	40′	50′	0,4199801		0,9075333	203,7	10′
30	0,4121771	441,6	0,9111038	199,9	30	30	0,4201121	439,9	0,9074722		30
21′	0,4123095	441,5	0,9110438	200,0	39′	51′	0,4202441		0,9074111	203,8	9′
30	0,4124420	441,6	0,9109838		30	30	0,4203760		0,9073500	203,9	30
22′	0,4125745	441,7	0,9109238		38′	52′	0,4205080		0,9072888	204,0	8′
30	0,4127070	441,6	0,9108638		30	30	0,4206399		0,9072276		30
23′	0,4128395	441,5	0,9108038	200,2	37′	53′	0,4207719		0,9071664		7′
30	0,4129720		0,9107438		30	30	0,4209039		0,9071052	204,1	30
24′	0,4131044		0,9106837	200,3	36′	54′	0,4210358	439,7	0,9070440	204,2	6′
30	0,4132368		0,9106236	200,4	30	30	0,4211677		0,9069828		30
25′	0,4133693		0,9105635	200,5	35′	55′	0,4212996		0,9069215	204,3	5′
30	0,4135018		0,9105034	200,6	30	30	0,4214315		0,9068602	204,4	30
26′	0,4136342	441,3	0,9104432	200,7	34′	56′	0,4215634		0,9067989	204,5	4′
30	0,4137666		0,9103830		30	30	0,4216953	439,6	0,9067376		30
27′	0,4138990		0,9103228		33′	57′	0,4218272	439,5	0,9066762		3′
30	0,4140314		0,9102626		30	30	0,4219591		0,9066149	204,6	30
28′	0,4141638	441,2	0,9102024	200,8	32′	58′	0,4220909		0,9065535	204,7	2′
30	0,4142962		0,9101422	200,9	30	30	0,4222227		0,9064921		30
29′	0,4144285		0,9100819	201,0	31′	59′	0,4223546		0,9064307	204,8	1′
30	0,4145608		0,9100216	201,1	30	30	0,4224865	439,4	0,9063693	204,9	30
30′	0,4146932		0,9099613		30′	60′	0,4226183		0,9063078		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4226183	439,3	0,9063078	205,0	60′	30′	0,4365111	437,5	0,9026853	208,8	30′
30	0,4227501		0,9062463	205,1	30	30	0,4366424		0,9026227		30
1′	0,4228819		0,9061848	205,2	59′	31′	0,4367736		0,9024600		29′
30	0,4230137		0,9061233		30	31	0,4369049		0,9023974	208,9	30
2′	0,4231455	439,2	0,9060617		58′	32′	0,4370361		0,9023347	209,0	28′
30	0,4232773		0,9060002		30	32	0,4371674	437,4	0,9022720		30
3′	0,4234090		0,9059386	205,3	57′	33′	0,4372986	437,3	0,9022093	209,1	27′
30	0,4235407		0,9058770	205,4	30	33	0,4374298		0,9021465	209,2	30
4′	0,4236725		0,9058155	205,5	56′	34′	0,4375610		0,9020838		26′
30	0,4238043	439,1	0,9057538		30	34	0,4376922		0,9020210	209,3	30
5′	0,4239360	439,0	0,9056921		55′	35′	0,4378234	437,2	0,9019582	209,4	25′
30	0,4240677		0,9056305	205,6	30	35	0,4379546		0,9018954	209,5	30
6′	0,4241994		0,9055688	205,7	54′	36′	0,4380857	437,3	0,9018325		24′
30	0,4243311		0,9055071		30	36	0,4382169	437,2	0,9017697	209,6	30
7′	0,4244628		0,9054454	205,8	53′	37′	0,4383481	437,0	0,9017068	209,7	23′
30	0,4245945	438,9	0,9043836	205,9	30	37	0,4384792	437,1	0,9016439		30
8′	0,4247262	438,8	0,9053219	206,0	52′	38′	0,4386103	437,2	0,9015810	209,8	22′
30	0,4248579		0,9052601	206,1	30	38	0,4387415	437,1	0,9015181	209,9	30
9′	0,4249895		0,9051983	206,2	51′	39′	0,4388726	437,0	0,9014551	210,0	21′
30	0,4251211		0,9051365		30	39	0,4390037		0,9013921		30
10′	0,4252528		0,9050746		50′	40′	0,4391348		0,9013291		20′
30	0,4253844		0,9050127		30	40	0,4392659	436,9	0,9012661	210,1	30
11′	0,4255161	438,7	0,9049509	206,3	49′	41′	0,4393970	436,8	0,9012031	210,2	19′
30	0,4256477		0,9048890	206,4	30	41	0,4395281		0,9011400		30
12′	0,4257793		0,9048271	206,5	48′	42′	0,4396591		0,9010770	210,3	18′
30	0,4259109	438,6	0,9047652	206,6	30	42	0,4397902		0,9010139	210,4	30
13′	0,4260425	438,5	0,9047032	206,7	47′	43′	0,4399212	436,7	0,9009508	210,5	17′
30	0,4261741		0,9046412		30	43	0,4400522		0,9008877		30
14′	0,4263056		0,9045792		46	44′	0,4401832	436,8	0,9008245		16′
30	0,4264371		0,9045171	206,8	30	44	0,4403143	436,6	0,9007614	210,6	30
15′	0,4265687		0,9044551		45′	45′	0,4404453	436,5	0,9006982	210,7	15′
30	0,4267003		0,9043931		30	45	0,4405762	436,6	0,9006350		30
16′	0,4268318		0,9043310	206,9	44′	46′	0,4407072	436,7	0,9005718	210,8	14′
30	0,4269634	438,3	0,9042689	207,0	30	46	0,4408382	436,6	0,9005086	210,9	30
17′	0,4270949	438,2	0,9042068	207,1	43′	47′	0,4409692	436,5	0,9004453	211,0	13′
30	0,4272264		0,9041447	207,2	30	47	0,4411002		0,9003820		30
18′	0,4273579		0,9040825		42′	48′	0,4412311		0,9003187		12′
30	0,4274894		0,9040203		30	48	0,4413621	436,4	0,9002554	211,1	30
19′	0,4276208	438,3	0,9039582		41′	49′	0,4414930	436,3	0,9001921	211,2	11′
30	0,4277523		0,9038960	207,3	30	49	0,4416239		0,9001288		30
20′	0,4278838	438,2	0,9038338	207,4	40′	50′	0,4417548		0,9000654	211,3	10′
30	0,4280153	438,1	0,9037716	207,5	30	50	0,4418857		0,9000020	211,4	30
21′	0,4281467	438,0	0,9037093	207,6	39′	51′	0,4420166		0,8999386	211,5	9′
30	0,4282781		0,9036470	207,7	30	51	0,4421475		0,8998752		30
22′	0,4284095		0,9035847	207,8	38′	52′	0,4422784	436,2	0,8998117		8′
30	0,4285409		0,9035223		30	52	0,4424093		0,8997483	211,6	30
23′	0,4286723		0,9034600		37′	53′	0,4425401		0,8996848	211,7	7′
30	0,4288037		0,9033977		30	53	0,4426710	436,1	0,8996213		30
24′	0,4289351		0,9033353	207,9	36′	54′	0,4428018	436,0	0,8995578	211,8	6′
30	0,4290665	437,9	0,9032729	208,0	30	54	0,4429326	436,1	0,8994943	211,9	30
25′	0,4291979	437,8	0,9032105	208,1	35′	55′	0,4430634	436,2	0,8994307	212,0	5′
30	0,4293293		0,9031480	208,2	30	55	0,4431943	436,0	0,8993671	212,1	30
26′	0,4294606		0,9030856	208,3	34′	56′	0,4433251	435,8	0,8993035	212,2	4′
30	0,4295920		0,9030231		30	56	0,4434558	435,9	0,8992399		30
27′	0,4297233	437,7	0,9029606		33′	57′	0,4435866	436,0	0,8991762		3′
30	0,4298546		0,9028981	208,4	30	57	0,4437174	435,9	0,8991126		30
28′	0,4299859		0,9028356	208,5	32′	58′	0,4438482	435,8	0,8990489	212,3	2′
30	0,4301172		0,9027731	208,6	30	58	0,4439790		0,8989852	212,4	30
29′	0,4302485		0,9027105	208,7	31′	59′	0,4441097	435,7	0,8989215	212,5	1′
30	0,4303798	437,6	0,9026479		30	59	0,4442404		0,8988578		30
30′	0,4305111		0,9025853		30′	60′	0,4443711		0,8987940		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4383711	435,8	0,8987940	212,5	60′	30′	0,4461978	433,8	0,8949343	216,3	30′
38	0,4385018		0,8987303	212,6	38	38	0,4463280		0,8948694	216,4	38
1′	0,4386326	435,7	0,8986665	212 7	59′	31′	0,4464581		0,8948045	216,5	29′
38	0,4387633	435,6	0,8986027		38	38	0,4465882		0,8947396	216,6	38
2′	0,4388940	435,5	0,8985389	212,8	58′	32′	0,4467184	433,7	0,8946746	216,7	28′
38	0,4390246		0,8984751	212,9	38	38	0,4468485		0,8946096	216,8	38
3′	0,4391553		0,8984112	213,0	57′	33′	0,4469786		0,8945446		27′
38	0,4392860		0,8983473	213,1	38	38	0,4471087		0,8944796		38
4′	0,4394166		0,8982834	213,2	56′	34′	0,4472388		0,8944145		26′
38	0,4395472		0,8982194		38	38	0,4473689	433,6	0,8943496	216,9	38
5′	0,4396779		0,8981555		55′	35′	0,4474990	433,5	0,8942844	217,0	25′
38	0,4398086	435,4	0,8980916		38	38	0,4476291		0,8942193	217,1	38
6′	0,4399392	435,3	0,8980276	213,3	54′	36′	0,4477591		0,8941542	217,2	24′
38	0,4400698	435,5	0,8979636	213,4	38	38	0,4478892	433,4	0,8940892		38
7′	0,4402004	435,2	0,8978996	213,5	53′	37′	0,4480192	433,3	0,8940239		23′
38	0,4403309		0,8978356	213,6	38	38	0,4481492		0,8939588		38
8′	0,4404615	435,3	0,8977715	213,7	52′	38′	0,4482792		0,8938936	217,3	22′
38	0,4405921		0,8977074		38	38	0,4484092		0,8938284	217,4	38
9′	0,4407227	435,2	0,8976433		51′	39′	0,4485392		0,8937632	217,5	21′
38	0,4408533	435,1	0,8975792		38	38	0,4486692		0,8936930	217,6	38
10′	0,4409838	435,0	0,8975151	213,8	50′	40′	0,4487992	433,2	0,8936327	217,7	20′
38	0,4411143	435,1	0,8974510	213,9	38	38	0,4489291		0,8935674		38
11′	0,4412448	435,2	0,8973868	214,0	49′	41′	0,4490591		0,8935021	217,8	19′
38	0,4413754	435,0	0,8973226	214,1	38	38	0,4491891		0,8934368	217,9	38
12′	0,4415059	434,8	0,8972584	214,2	48′	42′	0,4493190		0,8933714	218,0	18′
38	0,4416363	434,9	0,8971941	214,3	38	38	0,4494490	433,1	0,8933060		38
13′	0,4417668	434,0	0,8971299		47′	43′	0,4495789	433,0	0,8932406		17′
38	0,4418973	434,3	0,8970656		38	38	0,4497088	432,9	0,8931752	218,1	38
14′	0,4420278	434,8	0,8970013		46′	44′	0,4498387	432,8	0,8931098	218,2	16′
38	0,4421582		0,8969370	214,4	38	38	0,4499685	432,9	0,8930443		38
15′	0,4422887		0,8968727	214,5	45′	45′	0,4500984	433,0	0,8929789	218,3	15′
38	0,4424192		0,8968084	214,6	38	38	0,4502283	432,9	0,8929134		38
16′	0,4425496	434,7	0,8967440	214,7	44′	46′	0,4503582	432,8	0,8928479		14′
38	0,4426800		0,8966796		38	38	0,4504881		0,8927824	218,4	38
17′	0,4428104		0,8966152		43′	47′	0,4506179	432,7	0,8927169	218,5	13′
38	0,4429408	434,6	0,8965508		38	38	0,4507477		0,8926514		38
18′	0,4430712	434,5	0,8964864	214,8	42′	48′	0,4508775	432,8	0,8925858	218,7	12′
38	0,4432015	434,6	0,8964220	214,9	38	38	0,4510074	432,6	0,8925202		38
19′	0,4433319	434,7	0,8963575	215,0	41′	49′	0,4511372	432,5	0,8924546	218,8	11′
38	0,4434623	434,5	0,8962930	215,1	38	38	0,4512669	432,6	0,8923890	218,9	38
20′	0,4435927	434,5	0,8962285	215,2	40′	50′	0,4513967	432,7	0,8923233	219,0	10′
38	0,4437231	434,4	0,8961640		38	38	0,4515265	432,6	0,8922577	219,1	38
21′	0,4438534	434,3	0,8960994		39′	51′	0,4516563	432,5	0,8921920	219,2	9′
38	0,4439837		0,8960349		38	38	0,4517860		0,8921263		38
22′	0,4441140		0,8959703	215,3	38′	52′	0,4519158		0,8920606		8′
38	0,4442443		0,8959057	215,4	38	38	0,4520455	432,4	0,8919948		38
23′	0,4443746		0,8958411	215,5	37′	53′	0,4521753	432,3	0,8919291	219,3	7′
38	0,4445049		0,8957765	215,6	38	38	0,4523050		0,8918633		38
24′	0,4446352	434,2	0,8957118	215,7	36′	54′	0,4524347		0,8917975		6′
38	0,4447655		0,8956471		38	38	0,4525644		0,8917317	219,4	38
25′	0,4448957		0,8955824	215,8	35′	55′	0,4526941		0,8916659	219,5	5′
38	0,4450260		0,8955176		38	38	0,4528238		0,8916000	219,6	38
26′	0,4451562		0,8954529		34′	56′	0,4529535	432,2	0,8915342	219,7	4′
38	0,4452865	434,1	0,8953882	215,9	38	38	0,4530832		0,8914683		38
27′	0,4454167	434,0	0,8953234	216,0	33′	57′	0,4532128		0,8914024	219,8	3′
38	0,4455469		0,8952586	216,1	38	38	0,4533425	432,1	0,8913365	219,9	38
28′	0,4456771		0,8951938	216,2	32′	58′	0,4534721	432,0	0,8912705	220,0	2′
38	0,4458073	433,9	0,8951290		38	38	0,4536017		0,8912045		38
29′	0,4459375	433,8	0,8950641	216,3	31′	59′	0,4537313		0,8911385		1′
38	0,4460676		0,8949992		38	38	0,4538609		0,8910725	220,1	38
30′	0,4461978		0,8949343		30′	60′	0,4539905		0,8910065		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4539905	432,0	0,8910065	220,2	60′	30′	0,4617486	430,0	0,8870108	224,0	30′
3″	0,4541201	431,9	0,8909404		3″	3″	0,4618776		0,8869436		3″
1	0,4542497	431,8	0,8908744	220,3	59′	31′	0,4620066		0,8868764		29′
3″	0,4543793		0,8908083		3″	3″	0,4621356		0,8867592		3″
2′	0,4545088		0,8907422		58′	32′	0,4622646	429,9	0,8867420	224,1	28′
								429,8		224,2	
3″	0,4546384		0,8906761	220,4		3″	0,4623936		0,8866748		3″
3′	0,4547679	431,7	0,8906100	220,5	57′	33′	0,4625225		0,8866075	224,3	27′
3″	0,4548974		0,8905439	220,6	3″	3″	0,4626515		0,8865402		3″
4′	0,4550269		0,8904777	220,7	56′	34′	0,4627804		0,8864729		26′
3″	0,4551564		0,8904115		3″	3″	0,4629093	429,7	0,8864056	224,4	3″
5′	0,4552859		0,8903453	220,8	55′	35′	0,4630382		0,8863383	224,5	25′
3″	0,4554154	431,6	0,8902791	220,9	3″	3″	0,4631671		0,8862710	224,6	3″
6′	0,4555449	431,5	0,8902128	221,0	54′	36′	0,4632960		0,8862036	224,7	24′
3″	0,4556743		0,8901465		3″	3″	0,4634249	429,6	0,8861362		3″
7′	0,4558038		0,8900802		53′	37′	0,4635538	429,5	0,8860688	224,8	23′
3″	0,4559332		0,8900139	221,1		3″	0,4636827		0,8860014	224,9	3″
8′	0,4560627		0,8899476	221,2	52′	38′	0,4638115		0,8859339	225,0	22′
3″	0,4561922	431,4	0,8898813		3″	3″	0,4639404		0,8858664		3″
9′	0,4563216	431,3	0,8898149	221,3	51′	39′	0,4640692		0,8857989		21′
3″	0,4564510		0,8897484		3″	3″	0,4641981	429,4	0,8857314	225,1	3″
10′	0,4565804		0,8896821		50′	40′	0,4643269		0,8856639	225,2	20′
3″	0,4567098		0,8896157		3″	3″	0,4644557	429,3	0,8855964		3″
11′	0,4568392	431,2	0,8895493	221,4	49′	41′	0,4645845		0,8855288	225,3	19′
3″	0,4569686		0,8894829	221,5	3″	3″	0,4647133		0,8854612		3″
12′	0,4570979		0,8894164	221,6	48′	42′	0,4648420		0,8853936	225,4	18′
				221,7				429,2		225,5	
3″	0,4572273		0,8893499		3″	3″	0,4649708		0,8853260		3″
13′	0,4573566		0,8892834		47′	43′	0,4650996		0,8852583		17′
3″	0,4574860	431,1	0,8892169	221,8	3″	3″	0,4652284		0,8851907	225,6	3″
14′	0,4575153	431,0	0,8891503	221,9	46′	44′	0,4653571	429,1	0,8851230	225,7	16′
3″	0,4577446		0,8890837	222,0	3″	3″	0,4654858	429,0	0,8850553		3″
15′	0,4578739		0,8890171		45′	45′	0,4656145		0,8849876		15′
3″	0,4580032		0,8889505		3″	3″	0,4657432		0,8849199	225,8	3″
16′	0,4581326	430,9	0,8888839	222,2	44′	46′	0,4658719		0,8848522	226,0	14′
3″	0,4582618	430,8	0,8888172		3″	3″	0,4660006		0,8847844		3″
17′	0,4583910		0,8887506	222,3	43′	47′	0,4661293	428,9	0,8847166		13′
								428,8			
3″	0,4585203		0,8886839		3″	3″	0,4662580		0,8846488	226,1	3″
18′	0,4586496		0,8886172	222,4	42′	48′	0,4663866		0,8845810	226,2	12′
3″	0,4587788		0,8885505	222,5	3″	3″	0,4665153		0,8845132		3″
19′	0,4589080		0,8884837		41′	49′	0,4666439		0,8844453	226,3	11′
3″	0,4590373	430,7	0,8884170	222,6	3″	3″	0,4667726		0,8843774	226,4	3″
20′	0,4591665		0,8883502	222,7	40′	50′	0,4669012	428,7	0,8843095	226,5	10′
3″	0,4592957		0,8882834		3″	3″	0,4670298		0,8842416		3″
21′	0,4594248		0,8882166		39′	51′	0,4671584		0,8841736		9′
3″	0,4595540		0,8881497	222,8	3″	3″	0,4672870	428,6	0,8841057	226,6	3″
22′	0,4596832	430,5	0,8880829		38′	52′	0,4674156	428,5	0,8840377	226,7	8′
3″	0,4598124		0,8880161	222,9	3″	3″	0,4675442		0,8839697		3″
23′	0,4599415		0,8879492	223,0	37′	53′	0,4676727		0,8839017	226,8	7′
3″	0,4600707		0,8878823		3″	3″	0,4678012		0,8838337		3″
24′	0,4601998		0,8878154	223,1	36′	54′	0,4679298		0,8837656	226,9	6′
3″	0,4603289	430,3	0,8877485	223,2	3″	3″	0,4680584	428,4	0,8836976	227,0	3″
25′	0,4604580		0,8876815		35′	55′	0,4681869		0,8836294		5′
3″	0,4605871		0,8876145	223,3	3″	3″	0,4683154	428,3	0,8835613		3″
26′	0,4607162		0,8875475	223,4	34′	56′	0,4684439		0,8834932	227,1	4′
3″	0,4608453		0,8874804	223,5	3″	3″	0,4685774		0,8834251	227,2	3″
27′	0,4609744	430,2	0,8874134		33′	57′	0,4687009	428,2	0,8833569	227,3	3′
3″	0,4611035		0,8873464		3″	3″	0,4688293		0,8832887		3″
28′	0,4612325		0,8872793	223,6	32′	58′	0,4689578		0,8832205		2′
3″	0,4613616		0,8872122	223,7	3″	3″	0,4690863		0,8831523		3″
29′	0,4614906	430,1	0,8871451		31′	59′	0,4692147		0,8830841	227,4	1′
3″	0,4616196	430,0	0,8870780	223,8	3″	3″	0,4693432		0,8830159	227,5	3″
				223,9				428,1			
30′	0,4617486		0,8870108		30′	60′	0,4694716		0,8829476		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″				sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4694716	428,0	0,8829476	227,7	60′	30′	30′	0,4711588	426,0	0,8788171	231,3	30′
3′	0,4697600		0,8827993		3′	3′	3′	0,4714466		0,8786677	231,4	3′
1′	0,4700484		0,8826510	227,8	57′	31′	31′	0,4717344		0,8785183	231,5	29′
3′	0,4703368		0,8825027	227,9	3′	3′	3′	0,4720222	425,9	0,8783689	231,6	3′
2′	0,4706252	427,8	0,8823544	228,0	58′	32′	32′	0,4723100	425,8	0,8782194	231,7	28′
3′	0,4709136		0,8822059		3′	3′	3′	0,4725978		0,8780699		3′
3′	0,4712017		0,8820575		57′	33′	33′	0,4728855		0,8779204	231,8	27′
3′	0,4714899		0,8819091	228,1	3′	3′	3′	0,4731733		0,8777708		3′
4′	0,4717781		0,8817607	228,2	56′	34′	34′	0,4734610	425,7	0,8776213		26′
3′	0,4720662		0,8816122		3′	3′	3′	0,4737487		0,8774718	231,9	3′
5′	0,4723543	427,7	0,8814638	228,3	55′	35′	35′	0,4740364		0,8773222	232,0	25′
3′	0,4726426		0,8813153		3′	3′	3′	0,4743241		0,8771726	232,1	3′
6′	0,4729307		0,8811668		54′	36′	36′	0,4746119		0,8770230	232,2	24′
3′	0,4732188		0,8810183		3′	3′	3′	0,4748996		0,8768733		3′
7′	0,4735069	427,6	0,8808698	228,4	53′	37′	37′	0,4751872	425,6	0,8767236	232,3	23′
		427,5		228,5								
3′	0,4737950		0,8807213	228,6	3′	3′	3′	0,4754749	425,6	0,8765739		3′
8′	0,4740830		0,8805727	228,7	52′	38′	38′	0,4757626	425,5	0,8764242	232,4	22′
3′	0,4743710		0,8804241		3′	3′	3′	0,4760502	425,4	0,8762744		3′
9′	0,4746589		0,8802755	228,8	51′	39′	39′	0,4763379	425,3	0,8761246	232,5	21′
3′	0,4749468		0,8801269		3′	3′	3′	0,4766255		0,8759748	232,6	3′
10′	0,4752347	427,3	0,8799782		50′	40′	40′	0,4769131		0,8758249	232,7	20′
3′	0,4755225		0,8798296	228,9	3′	3′	3′	0,4772006		0,8756750		3′
11′	0,4758103		0,8796809	229,0	49′	41′	41′	0,4774883		0,8755251	232,8	19′
3′	0,4760980		0,8795322	229,1	3′	3′	3′	0,4777759		0,8753751		3′
12′	0,4763857	427,2	0,8793835	229,2	48′	42′	42′	0,4780635	425,2	0,8752251		18′
3′	0,4766733		0,8792348		3′	3′	3′	0,4783511		0,8750753	232,9	3′
13′	0,4769609		0,8790860	229,3	47′	43′	43′	0,4786386		0,8749254	233,0	17′
3′	0,4772485		0,8789372	229,4	3′	3′	3′	0,4789261		0,8747755		3′
14′	0,4775360		0,8787884	229,5	46′	44′	44′	0,4792137		0,8746255	233,1	16′
3′	0,4778236	427,1	0,8786396		3′	3′	3′	0,4795012	425,1	0,8744756	233,2	3′
15′	0,4781197	427,0	0,8808907		45′	45′	45′	0,4809888	425,0	0,8767267		15′
3′	0,4784478		0,8809421	229,6	3′	3′	3′	0,4811163		0,8766567		3′
16′	0,4787759		0,8807934	229,7	44′	46′	46′	0,4812438		0,8765868	233,3	14′
3′	0,4791040	426,9	0,8806841		3′	3′	3′	0,4813713	424,9	0,8765168	233,4	3′
17′	0,4794321	426,8	0,8806152	229,8	43′	47′	47′	0,4814987	424,8	0,8764468	233,5	13′
3′	0,4797601		0,8805463		3′	3′	3′	0,4816262		0,8763768	233,6	3′
18′	0,4800882		0,8804773		42′	48′	48′	0,4817537		0,8763067	233,7	12′
3′	0,4804163		0,8804084	229,9	3′	3′	3′	0,4818812		0,8762366		3′
19′	0,4807443		0,8803394	230,0	41′	49′	49′	0,4820086	424,7	0,8761665	233,8	11′
3′	0,4810724		0,8802704	230,1	3′	3′	3′	0,4821360		0,8760963		3′
20′	0,4814004	426,7	0,8802014	230,2	40′	50′	50′	0,4822634		0,8760262		10′
3′	0,4817284		0,8801323		3′	3′	3′	0,4823908		0,8759561	233,9	3′
21′	0,4820564		0,8800633	230,3	39′	51′	51′	0,4825182		0,8758859	234,0	9′
3′	0,4823844	426,6	0,8799942		3′	3′	3′	0,4826456	424,6	0,8758157	234,1	3′
22′	0,4827124	426,5	0,8799251		38′	52′	52′	0,4827730	424,5	0,8757456	234,2	8′
3′	0,4830404		0,8798560	230,4	3′	3′	3′	0,4829003		0,8756753		3′
23′	0,4833683		0,8797869	230,5	37′	53′	53′	0,4830277		0,8756050		7′
3′	0,4836963		0,8797178	230,6	3′	3′	3′	0,4831551	424,2	0,8755347		3′
24′	0,4840242		0,8796486	230,7	36′	54′	54′	0,4832824	424,3	0,8754645		6′
3′	0,4843522	426,4	0,8795794		3′	3′	3′	0,4834097		0,8753942	234,3	3′
25′	0,4846801	426,3	0,8795102	230,8	35′	55′	55′	0,4835370		0,8753239	234,4	5′
3′	0,4850180		0,8794410		3′	3′	3′	0,4836643		0,8752536	234,5	3′
26′	0,4853359		0,8793717		34′	56′	56′	0,4837916		0,8751832	234,6	4′
3′	0,4856138		0,8793025	230,9	3′	3′	3′	0,4839189		0,8751128	234,7	3′
27′	0,4863917	426,2	0,8792333	231,0	33′	57′	57′	0,4840462	424,2	0,8750424		3′
3′	0,4865196		0,8791639	231,1	3′	3′	3′	0,4841735		0,8749720		3′
28′	0,4868474		0,8790946	231,2	32′	58′	58′	0,4843007		0,8749015	234,8	2′
3′	0,4867752		0,8790252		3′	3′	3′	0,4844280	424,1	0,8748312	234,9	3′
29′	0,4869031		0,8789559	231,3	31′	59′	59′	0,4845552	424,0	0,8747607	235,0	1′
3′	0,4770310	426,1	0,8788865		3′	3′	3′	0,4846824		0,8746902	235,1	3′
30′	0,4771588		0,8788171		30′	60′	60′	0,4848096		0,8746197		0′
	co-sin.	10″ diff.	sin.	10″ diff.				co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,4848096	424,0	0,8746197	235,2	60′	30′	0,4924236	421,8	0,8703557	238,8	30′
30	0,4849368		0,8745491		30	30	0,4925502		0,8702841	238,9	30
1′	0,4850640		0,8744786		59′	31′	0,4926767		0,8702124	239,0	29′
30	0,4851912	423,9	0,8744081		30	30	0,4928033		0,8701407		30
2′	0,4853184	423,8	0,8743375	235,3	58′	32′	0,4929298		0,8700690		28′
30	0,4854456		0,8742669	235,4	30	30	0,4930564		0,8699973	239,1	30
3′	0,4855727		0,8741963	235,5	57′	33′	0,4931829	421,7	0,8699256	239,2	27′
30	0,4856999		0,8741257	235,6	30	30	0,4933094		0,8698539		30
4′	0,4858270	423,7	0,8740550	235,7	56′	34′	0,4934359		0,8697821	239,3	26′
30	0,4859541		0,8739843		30	30	0,4935624		0,8697103		30
5′	0,4860812		0,8739136		55′	35′	0,4936889		0,8696385		25′
30	0,4862083	423,6	0,8738429		30	30	0,4938154		0,8695667	239,4	30
6′	0,4863354	423,5	0,8737722	235,8	54′	36′	0,4939419	421,6	0,8694949	239,5	24′
30	0,4864624		0,8737020	235,9	30	30	0,4940684	421,5	0,8694231	239,6	30
7′	0,4865895		0,8736307	236,0	53′	37′	0,4941948		0,8693512	239,7	23′
30	0,4867166		0,8735599		30	30	0,4943212	421,4	0,8692793		30
8′	0,4868436		0,8734891		52′	38′	0,4944476	421,3	0,8692074	239,8	22′
30	0,4869707	423,4	0,8734183	236,1	30	30	0,4945740		0,8691355		30
9′	0,4870977	423,3	0,8733475	236,2	51′	39′	0,4947005		0,8690635		21′
30	0,4872247		0,8732767		30	30	0,4948269		0,8689916	239,9	30
10′	0,4873517		0,8732058	236,3	50′	40′	0,4949532	421,2	0,8689196	240,0	20′
30	0,4874787		0,8731349	236,4	30	30	0,4950796		0,8688476	240,1	30
11′	0,4876057		0,8730640	236,5	49′	41′	0,4952060		0,8687756	240,2	19′
30	0,4877327		0,8729931	236,6	30	30	0,4953324		0,8687036		30
12′	0,4878597	423,2	0,8729221	236,7	48′	42′	0,4954587	421,1	0,8686315	240,3	18′
30	0,4879867		0,8728511		30	30	0,4955850	421,0	0,8685594		30
13′	0,4881136	423,1	0,8727801		47′	43′	0,4957113		0,8684873		17′
30	0,4882405	423,0	0,8727091		30	30	0,4958376		0,8684152	240,4	30
14′	0,4883674		0,8726381	236,8	46′	44′	0,4959639		0,8683431	240,5	16′
30	0,4884943		0,8725671	236,9	30	30	0,4960902	420,9	0,8682710	240,6	30
15′	0,4886212		0,8724960	237,0	45′	45′	0,4962165	420,8	0,8681988	240,7	15′
30	0,4887481	422,9	0,8724249		30	30	0,4963428		0,8681266		30
16′	0,4888750	422,8	0,8723538		44′	46′	0,4964690		0,8680544		14′
30	0,4890019		0,8722827	237,1	30	30	0,4965952		0,8679822		30
17′	0,4891288		0,8722116	237,2	43′	47′	0,4967215		0,8679100	240,8	13′
30	0,4892557		0,8721405		30	30	0,4968478		0,8678378		30
18′	0,4893825		0,8720693	237,3	42′	48′	0,4969740		0,8677655	240,9	12′
30	0,4895093		0,8719981	237,4	30	30	0,4971002	420,7	0,8676932	241,0	30
19′	0,4896361		0,8719269	237,5	41′	49′	0,4972264	420,6	0,8676209	241,1	11′
30	0,4897629	422,7	0,8718557		30	30	0,4973526	420,5	0,8675486	241,2	30
20′	0,4898897		0,8717844		40′	50′	0,4974787		0,8674762	241,3	10′
30	0,4900165	422,6	0,8717132	237,6	30	30	0,4976049		0,8674038		30
21′	0,4901433	422,5	0,8716419	237,7	39′	51′	0,4977310		0,8673314		9′
30	0,4902701		0,8715706		30	30	0,4978572	420,4	0,8672590	241,4	30
22′	0,4903968		0,8714993	237,8	38′	52′	0,4979833	420,3	0,8671866	241,5	8′
30	0,4905236	422,4	0,8714280	237,9	30	30	0,4981094		0,8671142	241,6	30
23′	0,4906503	422,3	0,8713566	238,0	37′	53′	0,4982355		0,8670417	241,7	7′
30	0,4907771		0,8712852		30	30	0,4983616		0,8669692		30
24′	0,4909038		0,8712138		36′	54′	0,4984877		0,8668967		6′
30	0,4910305		0,8711424	238,1	30	30	0,4986138		0,8668242		30
25′	0,4911572		0,8710710	238,2	35′	55′	0,4987399	420,2	0,8667517	241,8	5′
30	0,4912839		0,8709996		30	30	0,4988660		0,8666792	241,9	30
26′	0,4914105	422,2	0,8709281	238,3	34′	56′	0,4989920		0,8666066	242,0	4′
30	0,4915371	422,0	0,8708566	238,4	30	30	0,4991181	420,1	0,8665340	242,1	30
27′	0,4916638	422,1	0,8707851	238,5	33′	57′	0,4992441	420,0	0,8664614	242,2	3′
30	0,4917905	422,3	0,8707136		30	30	0,4993701		0,8663888		30
28′	0,4919171	422,2	0,8706420		32′	58′	0,4994961		0,8663161		2′
30	0,4920438		0,8705705	238,6	30	30	0,4996221		0,8662435		30
29′	0,4921704	422,1	0,8704989	238,7	31′	59′	0,4997481	419,9	0,8661708	242,3	1′
30	0,4922970	422,0	0,8704273		30	30	0,4998741	419,8	0,8660981	242,4	30
30′	0,4924236	432,9	0,8703557		30′	60′	0,5000000		0,8660254		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5000000	419,8	0,8660254	242,5	60′	30′	0,5075384	417,7	0,8616292	246,2	30′
36	0,5001260		0,8659747	242,6	36	36	0,5076637		0,8615554		36
1′	0,5002519		0,8659792	242,7	59′	31′	0,5077890		0,8614815		29′
36	0,5003778		0,8658071		36	36	0,5079143	417,6	0,8614076	246,3	36
2′	0,5005037	419,7	0,8657349		58′	32′	0,5080396	417,5	0,8613337		28′
36	0,5006297		0,8656615		36	36	0,5081648		0,8612598		36
3′	0,5007555		0,8655887	242,8	57′	33′	0,5082901		0,8611859	246,4	27′
36	0,5008815		0,8655157	242,9	36	36	0,5084153		0,8611120	246,5	36
4′	0,5010073	419,6	0,8654430	243,0	56′	34′	0,5085405	417,4	0,8610380	246,6	26′
36	0,5011332	419,5	0,8653701		36	36	0,5086658	417,3	0,8609640	246,7	36
5′	0,5012591		0,8652972		55′	35′	0,5087910		0,8608900		25′
36	0,5013849	419,4	0,8652243	243,1	36	36	0,5089162		0,8608160		36
6′	0,5015107	419,3	0,8651514	243,2	54′	36′	0,5090414		0,8607420	246,8	24′
36	0,5016366		0,8650785		36	36	0,5091666		0,8606680	246,9	36
7′	0,5017624		0,8650055	243,3	53′	37′	0,5092918	417,2	0,8605939	247,0	23′
36	0,5018882		0,8649325	243,4	36	36	0,5094170		0,8605198		36
8′	0,5020140	419,2	0,8648595	243,5	52′	38′	0,5095421		0,8604457	247,1	22′
36	0,5021398		0,8647864		36	36	0,5096673		0,8603716	247,2	36
9′	0,5022655		0,8647134		51′	39′	0,5097924	417,1	0,8602974		21′
36	0,5023912		0,8646404	243,6	36	36	0,5099175	417,0	0,8602232		36
10′	0,5025170		0,8645673	243,7	50′	40′	0,5100426		0,8601491		20′
36	0,5026428		0,8644942		36	36	0,5101677		0,8600749	247,3	36
11′	0,5027685	419,1	0,8644211	243,8	49′	41′	0,5102928	416,9	0,8600007	247,4	19′
36	0,5028942	419,0	0,8643480	243,9	36	36	0,5104179	416,8	0,8599265	247,5	36
12′	0,5030199		0,8642748	244,0	48′	42′	0,5105429		0,8598522		18′
36	0,5031456		0,8642016		36	36	0,5106679		0,8597780	247,6	36
13′	0,5032713		0,8641284		47′	43′	0,5107930		0,8597037	247,7	17′
36	0,5033970		0,8640552	244,1	36	36	0,5109181		0,8596294		36
14′	0,5035227	418,9	0,8639820	244,2	46′	44′	0,5110431	416,7	0,8595551	247,8	16′
36	0,5036484	418,8	0,8639088		36	36	0,5111681		0,8594808	247,9	36
15′	0,5037740		0,8638355	244,3	45′	45′	0,5112931		0,8594064	248,0	15′
36	0,5038996		0,8637622		36	36	0,5114181	416,6	0,8593320		36
16′	0,5040252		0,8636889		44′	46′	0,5115431	416,5	0,8592576		14′
36	0,5041508	418,7	0,8636155	244,4	36	36	0,5116681		0,8591832		36
17′	0,5042763		0,8635422	244,5	43′	47′	0,5117930		0,8591088	248,2	13′
36	0,5044021		0,8634690	244,6	36	36	0,5119180		0,8590343		36
18′	0,5045276	418,6	0,8633955	244,7	42′	48′	0,5120429	416,4	0,8589599	248,3	12′
36	0,5046532	418,5	0,8633222		36	36	0,5121678	416,3	0,8588854		36
19′	0,5047788		0,8632488	244,8	41′	49′	0,5122927		0,8588109	248,4	11′
36	0,5049043	418,4	0,8631754	244,9	36	36	0,5124176		0,8587364	248,5	36
20′	0,5050298		0,8631019	245,0	40′	50′	0,5125425	416,2	0,8586618		10′
36	0,5051554	418,3	0,8630284		36	36	0,5126674		0,8585873	248,6	36
21′	0,5052809		0,8629549		39′	51′	0,5127923		0,8585127	248,7	9′
36	0,5054064		0,8628814	245,1	36	36	0,5129171		0,8584381		36
22′	0,5055319	418,2	0,8628079	245,2	38′	52′	0,5130420		0,8583635	248,8	8′
36	0,5056573		0,8627344		36	36	0,5131668	416,1	0,8582888		36
23′	0,5057828		0,8626608	245,3	37′	53′	0,5132916	416,0	0,8582142		7′
36	0,5059083		0,8625872		36	36	0,5134164		0,8581396	248,9	36
24′	0,5060338		0,8625136		36′	54′	0,5135413		0,8580649	249,0	6′
36	0,5061592		0,8624400	245,4	36	36	0,5136660		0,8579902	249,1	36
25′	0,5062846		0,8623664	245,5	35′	55′	0,5137908		0,8579155	249,2	5′
36	0,5064101	418,1	0,8622928	245,6	36	36	0,5139156	415,9	0,8578408		36
26′	0,5065355	418,0	0,8622191	245,7	34′	56′	0,5140404	415,8	0,8577660	249,3	4′
36	0,5066609	417,9	0,8621454		36	36	0,5141651		0,8576912		36
27′	0,5067863	417,8	0,8620717		33′	57′	0,5142899	415,7	0,8576164		3′
36	0,5069116		0,8619980		36	36	0,5144146		0,8575416	249,4	36
28′	0,5070370		0,8619243	245,8	32′	58′	0,5145393		0,8574668	249,5	2′
36	0,5071624		0,8618506	245,9	36	36	0,5146640		0,8573920		36
29′	0,5072877		0,8617768	246,0	31′	59′	0,5147887		0,8573171	249,6	1′
36	0,5074131		0,8617030	246,1	36	36	0,5149134	415,6	0,8572422	249,7	36
30′	0,5075384		0,8616292		30′	60′	0,5150381		0,8571673		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

′	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5150381	415,5	0,8571673	249,8	60′	30′	0,5224986	413,3	0,8526402	253,5	30′
38	0,5151628		0,8570923		38	38	0,5226226		0,8525642		38
1′	0,5152874		0,8570174		59′	31′	0,5227466	413,2	0,8524881		29′
38	0,5154121	415,4	0,8569425	249,9	38	38	0,5228706		0,8524121	253,6	38
2′	0,5155367	415,3	0,8568675	250,0	58′	32′	0,5229945		0,8523360	253,7	28′
38	0,5156613		0,8567925		38	38	0,5231184		0,8522599		38
3′	0,5157859		0,8567175	250,1	57′	33′	0,5232424		0,8521838		27′
38	0,5159105		0,8566425	250,2	38	38	0,5233664	413,1	0,8521077		38
4′	0,5160351	415,2	0,8565674		56′	34′	0,5234903	413,0	0,8520316	253,8	26′
38	0,5161597		0,8564923		38	38	0,5236142		0,8519555	253,9	38
5′	0,5162842		0,8564173	250,3	55′	35′	0,5237381		0,8518793	254,0	25′
38	0,5164088		0,8563422	250,4	38	38	0,5238620	412,9	0,8518031	254,3	38
6′	0,5165333		0,8562671	250,5	54′	36′	0,5239859	412,8	0,8517269	254,2	24′
38	0,5166579	415,1	0,8561920	250,6	38	38	0,5241098		0,8516506		38
7′	0,5167824	415,0	0,8561168	250,7	53′	37′	0,5242336		0,8515744		23′
38	0,5164069		0,8560416		38	38	0,5243574		0,8514981		38
8′	0,5170314		0,8559664		52′	38′	0,5244813		0,8514219	254,3	22′
38	0,5171559		0,8558912		38	38	0,5246051		0,8513456	254,4	38
9′	0,5172804	414,9	0,8558160	250,8	51′	39′	0,5247290	412,7	0,8512693	254,5	21′
38	0,5174048	414,8	0,8557408	250,9	38	38	0,5248528	412,6	0,8511929		38
10′	0,5175293		0,8556655	251,0	50′	40′	0,5249766	412,5	0,8511166		20′
38	0,5176537		0,8555902	251,1	38	38	0,5250004		0,8510403	254,6	38
11′	0,5177782	414,7	0,8555149	251,2	49′	41′	0,5252241		0,8509639	254,7	19′
38	0,5179026		0,8554396		38	38	0,5253479		0,8508875		38
12′	0,5180270		0,8553642		48′	42′	0,5254717		0,8508111	254,8	18′
38	0,5181514		0,8552889		38	38	0,5255954	412,4	0,8507347	254,9	38
13′	0,5182758		0,8552135	251,3	47′	43′	0,5257191	412,3	0,8506582	255,0	17′
38	0,5184002	414,6	0,8551381	251,4	38	38	0,5258428		0,8505817		38
14′	0,5185246	414,5	0,8550627	251,5	46′	44′	0,5259665		0,8505052		16′
38	0,5186490	414,4	0,8549872		38	38	0,5260902		0,8504287	255,1	38
15′	0,5187733	414,3	0,8549118		45′	45′	0,5262139	412,2	0,8503522	255,2	15′
38	0,5188976		0,8548364	251,6	38	38	0,5263376		0,8502757		38
16′	0,5190219		0,8547609	251,7	44′	46′	0,5264613		0,8501991	255,3	14′
38	0,5191462		0,8546854		38	38	0,5265849		0,8501225		38
17′	0,5192705		0,8546099	251,8	43′	47′	0,5267085		0,8500459		13′
38	0,5193948		0,8545344		38	38	0,5268322	412,1	0,8499693	255,4	38
18′	0,5195191		0,8544588	251,9	42′	48′	0,5269558	412,0	0,8498927	255,5	12′
38	0,5196434	414,2	0,8543832	252,0	38	38	0,5270794		0,8498161	255,6	38
19′	0,5197676		0,8543076		41′	49′	0,5272030		0,8497394	255,7	11′
38	0,5198919		0,8542320	252,1	38	38	0,5273266	411,9	0,8496627		38
20′	0,5200161		0,8541564	252,2	40′	50′	0,5274502	411,8	0,8495860	255,8	10′
38	0,5201404	414,1	0,8540808		38	38	0,5275738		0,8495093		38
21′	0,5202646	414,0	0,8540051	252,3	39′	51′	0,5276973		0,8494325		9′
38	0,5203888	413,9	0,8539294		38	38	0,5278208		0,8493558	255,9	38
22′	0,5205130	413,8	0,8538537		38′	52′	0,5279443	411,7	0,8492790	256,0	8′
38	0,5206372		0,8537780	252,4	38	38	0,5280679		0,8492022	256,1	38
23′	0,5207613		0,8537023	252,5	37′	53′	0,5281914		0,8491254	256,2	7′
38	0,5208854		0,8536266	252,6	38	38	0,5283149	411,6	0,8490486		38
24′	0,5210096		0,8535508	252,7	36′	54′	0,5284383	411,5	0,8489717	256,3	6′
38	0,5211338		0,8534750		38	38	0,5285618		0,8488948		38
25′	0,5212579	413,7	0,8533992	252,8	35′	55′	0,5286853		0,8488179		5′
38	0,5213820		0,8533234		38	38	0,5288088		0,8487410	256,4	38
26′	0,5215061		0,8532475		34′	56′	0,5289322	411,3	0,8486641	256,5	4′
38	0,5216302	413,6	0,8531717	252,9	38	38	0,5290556		0,8485872	256,6	38
27′	0,5217543	413,5	0,8530958	253,0	33′	57′	0,5291790		0,8485102	256,7	3′
38	0,5218784		0,8530199	253,1	38	38	0,5293024		0,8484332		38
28′	0,5220024		0,8529440	253,2	32′	58′	0,5294258		0,8483562		2′
38	0,5221264		0,8528681		38	38	0,5295492		0,8482792		38
29′	0,5222503		0,8527921		31′	59′	0,5296726	411,2	0,8482022	256,8	1′
38	0,5223746	413,4	0,8527162	253,4	38	38	0,5297960	411,1	0,8481252	256,9	38
30′	0,5224986		0,8526402		30′	60′	0,5299193		0,8480481		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5297193	411,0	0,8480481	257,0	60′	30′	0,5372996	408,8	0,8433914	260,5	30′
30	0,5300425		0,8477710	257,1	30	30	0,5376223		0,8431133	260,6	30
1′	0,5301659		0,8475939	257,2	59′	31′	0,5379449		0,8428351	260,7	29′
30	0,5302892		0,8473168		30	30	0,5382675		0,8425569		30
2′	0,5304125		0,8470396		58′	32′	0,5385902	408,7	0,8422787	260,8	28′
30	0,5305358	410,9	0,8467624		30	30	0,5389128		0,8420005		30
3′	0,5306591	410,8	0,8464853	257,3	57′	33′	0,5392354		0,8417222		27′
30	0,5307824		0,8462086	257,4	30	30	0,5395580	408,6	0,8414440	260,9	30
4′	0,5309057		0,8459307	257,5	56′	34′	0,5398806	408,5	0,8411657	261,0	26′
30	0,5310289		0,8456537		30	30	0,5402032		0,8408874	261,1	30
5′	0,5311521		0,8453766		55′	35′	0,5405257		0,8406091	261,2	25′
30	0,5312754		0,8450994	257,6	30	30	0,5408483	408,4	0,8403308		30
6′	0,5313986	410,7	0,8448223	257,7	54′	36′	0,5411708	408,3	0,8400524	261,3	24′
30	0,5315218	410,6	0,8445446		30	30	0,5414933		0,8397740		30
7′	0,5316450	410,5	0,8442673	257,8	53′	37′	0,5418158		0,8394955		23′
30	0,5317681		0,8439900	257,9	30	30	0,5421383		0,8392172	261,4	30
8′	0,5318913		0,8436126	258,0	52′	38′	0,5424608		0,8389388	261,5	22′
30	0,5320145		0,8433352		30	30	0,5427833		0,8386604	261,6	30
9′	0,5321375		0,8430578		51′	39′	0,5431058	408,2	0,8383819	261,7	21′
30	0,5322608		0,8427804	258,1	30	30	0,5434283	408,1	0,8381034		30
10′	0,5323839	410,3	0,8425030	258,2	50′	40′	0,5437507	408,0	0,8378249		20′
30	0,5325070		0,8422255		30	30	0,5440731		0,8375464		30
11′	0,5326301		0,8419481	258,3	49′	41′	0,5443955		0,8372679	261,8	19′
30	0,5327532		0,8416706		30	30	0,5447179		0,8369894	261,9	30
12′	0,5328763	410,2	0,8413931		48′	42′	0,5450403		0,8367108	262,0	18′
30	0,5329994		0,8411156	258,4	30	30	0,5453627		0,8364322		30
13′	0,5331224		0,8408381	258,5	47′	43′	0,5456851	407,9	0,8361535	262,1	17′
30	0,5332453	410,1	0,8405605		30	30	0,5460075	407,8	0,8358750	262,2	30
14′	0,5333683	410,0	0,8402830	258,6	46′	44′	0,5463298		0,8355963		16′
30	0,5334915		0,8400054	258,7	30	30	0,5466521		0,8353177		30
15′	0,5336145		0,8397278	258,8	45′	45′	0,5469745	407,7	0,8350390	262,3	15′
30	0,5337375	409,9	0,8394502		30	30	0,5472968		0,8347603	262,4	30
16′	0,5338605	409,8	0,8391725		44′	46′	0,5476191		0,8344816	262,5	14′
30	0,5339835		0,8388949	258,9	30	30	0,5479414	407,6	0,8342029		30
17′	0,5341065		0,8386172	259,0	43′	47′	0,5482637	407,5	0,8339241		13′
30	0,5342294		0,8383395	259,1	30	30	0,5485860		0,8336454	262,6	30
18′	0,5343523		0,8380618	259,2	42′	48′	0,5489082		0,8333666	262,7	12′
30	0,5344752		0,8377841		30	30	0,5492305	407,4	0,8330878		30
19′	0,5345982	409,7	0,8375063		41′	49′	0,5495527	407,3	0,8328090	262,8	11′
30	0,5347211		0,8372285		30	30	0,5498749		0,8325302	262,9	30
20′	0,5348440		0,8369508	259,3	40′	50′	0,5501971		0,8322513	263,0	10′
30	0,5349669	409,6	0,8366730	259,4	30	30	0,5505193		0,8319724		30
21′	0,5350898	409,5	0,8363952	259,5	39′	51′	0,5508415		0,8316935		9′
30	0,5352127		0,8361174	259,6	30	30	0,5511636		0,8314146	263,1	30
22′	0,5353355		0,8358395	259,7	38′	52′	0,5514859	407,2	0,8311357	263,2	8′
30	0,5354584	409,4	0,8355616		30	30	0,5518081	407,1	0,8308568		30
23′	0,5355812	409,3	0,8352837		37′	53′	0,5521302	407,0	0,8305778	263,3	7′
30	0,5357040		0,8350058		30	30	0,5524523		0,8302988		30
24′	0,5358268		0,8347279	259,8	36′	54′	0,5527744		0,8300198		6′
30	0,5359496		0,8344500	259,9	30	30	0,5530965		0,8297408	263,4	30
25′	0,5360724	409,2	0,8341720	260,0	35′	55′	0,5534187		0,8294618	263,5	5′
30	0,5361952		0,8338940		30	30	0,5537408	406,9	0,8291828	263,6	30
26′	0,5363179		0,8336160		34′	56′	0,5540628	406,8	0,8289037	263,7	4′
30	0,5364407	409,1	0,8333380	260,1	30	30	0,5543849		0,8286246		30
27′	0,5365634	409,0	0,8330600	260,2	33′	57′	0,5547069		0,8283455		3′
30	0,5366861		0,8327820		30	30	0,5550290		0,8280664		30
28′	0,5368089		0,8325039	260,3	32′	58′	0,5553510	406,7	0,8277873	263,8	2′
30	0,5369316		0,8322258	260,4	30	30	0,5556731		0,8275082	263,9	30
29′	0,5370543		0,8319477	260,5	31′	59′	0,5559951		0,8272290	264,0	1′
30	0,5371770	408,9	0,8316696		30	30	0,5563171		0,8269498	264,1	30
30′	0,5372996		0,8313914		30′	60′	0,5566390		0,8266706		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5446390	406,7	0,8386705	264,2	60′	30′	0,5619370	404,2	0,8338888	267,7	30′
30	0,5447510	406,6	0,8385913		30	30	0,5620583		0,8338016		30
1′	0,5448630	406,5	0,8385121		59′	31′	0,5621795		0,8337252	267,8	29′
30	0,5450050	406,4	0,8384329		30	31	0,5623008		0,8336449		30
2′	0,5451269	406,3	0,8383536	264,3	58′	32′	0,5624220		0,8335645		28′
30	0,5452488		0,8382743	264,4	30	32	0,5625433	404,1	0,8334842	267,9	30
3′	0,5453707		0,8381950	264,5	57′	33′	0,5626645	404,0	0,8334038	268,0	27′
30	0,5454926		0,8381157	264,6	30	33	0,5627857	403,9	0,8333234	268,1	30
4′	0,5456145		0,8380363	264,7	56′	34′	0,5629069	403,8	0,8332430	268,2	26′
30	0,5457364		0,8379569		30	34	0,5630281		0,8331626		30
5′	0,5458583	406,2	0,8378775		55′	35′	0,5631492		0,8330821		25′
30	0,5459802	406,1	0,8377981		30	35	0,5632703		0,8330017		30
6′	0,5461020	406,0	0,8377187	264,8	54′	36′	0,5633915		0,8329212	268,3	24′
30	0,5462238		0,8376393	264,9	30	36	0,5635126		0,8328407	268,4	30
7′	0,5463456		0,8375598	265,0	53′	37′	0,5636338	403,7	0,8327602	268,5	23′
30	0,5464674		0,8374803		30	37	0,5637549		0,8326797		30
8′	0,5465892		0,8374008		52′	38′	0,5638760		0,8325991		22′
30	0,5467110	405,9	0,8373213	265,1	30	38	0,5639971	403,6	0,8325186	268,6	30
9′	0,5468328	405,8	0,8372418	265,2	51′	39′	0,5641182	403,5	0,8324380	268,7	21′
30	0,5469545		0,8371623		30	39	0,5642393		0,8323574		30
10′	0,5470763		0,8370827	265,3	50′	40′	0,5643603		0,8322768	268,8	20′
30	0,5471981		0,8370031		30	40	0,5644814	403,4	0,8321962	268,9	30
11′	0,5473198	405,7	0,8369235		49′	41′	0,5646024	403,3	0,8321155	269,0	19′
30	0,5474415		0,8368439	265,4	30	41	0,5647234		0,8320348		30
12′	0,5475632		0,8367643	265,5	48′	42′	0,5648444		0,8319541		18′
30	0,5476849	405,6	0,8366847	265,6	30	42	0,5649654		0,8318734	269,1	30
13′	0,5478066	405,5	0,8366050	265,7	47′	43′	0,5650864	403,2	0,8317927	269,2	17′
30	0,5479283		0,8365253		30	43	0,5652074		0,8317120		30
14′	0,5480499		0,8364456	265,8	46	44′	0,5653283		0,8316312	269,3	16′
30	0,5481716		0,8363659		30	44	0,5654492		0,8315504	269,4	30
15′	0,5482932		0,8362861		45′	45′	0,5655702		0,8314696	269,5	15′
30	0,5484149	405,4	0,8362064	265,9	30	45	0,5656912	403,1	0,8313887		30
16′	0,5485365	405,3	0,8361266	266,0	44′	46′	0,5658121	403,0	0,8313079		14′
30	0,5486581		0,8360468	266,1	30	46	0,5659330	402,9	0,8312270		30
17′	0,5487797	405,2	0,8359670	266,2	43′	47′	0,5660539	402,8	0,8311462	269,7	13′
30	0,5489013		0,8358872		30	47	0,5661747		0,8310653		30
18′	0,5490228		0,8358073		42′	48′	0,5662956		0,8309844		12′
30	0,5491444		0,8357275		30	48	0,5664164		0,8309035		30
19′	0,5492659		0,8356476	266,3	41′	49′	0,5665373		0,8308226	269,8	11′
30	0,5493875	405,1	0,8355677	266,4	30	49	0,5666582		0,8307417	269,9	30
20′	0,5495090	405,0	0,8354878	266,5	40′	50′	0,5667790	402,7	0,8306607	270,0	10′
30	0,5496305		0,8354079		30	50	0,5668998	402,6	0,8305797	270,1	30
21′	0,5497520		0,8353279		39′	51′	0,5670206	402,5	0,8304987	270,2	9′
30	0,5498735		0,8352479		30	51	0,5671414		0,8304177		30
22′	0,5499950	404,9	0,8351680	266,6	38′	52′	0,5672621		0,8303366		8′
30	0,5501165	404,8	0,8350880	266,7	30	52	0,5673828		0,8302556		30
23′	0,5502379		0,8350080		37′	53′	0,5675036		0,8301745	270,3	7′
30	0,5503593		0,8349280	266,8	30	53	0,5676244		0,8300934	270,4	30
24′	0,5504807	404,7	0,8348479	266,9	36′	54′	0,5677451	402,4	0,8300123	270,5	6′
30	0,5506022		0,8347678	267,0	30	54	0,5678658	402,3	0,8299312	270,6	30
25′	0,5507236		0,8346877		35′	55′	0,5679865		0,8298500	270,7	5′
30	0,5508450		0,8346076		30	55	0,5681072		0,8297688		30
26′	0,5509663	404,5	0,8345275	267,1	34′	56′	0,5682279	402,2	0,8296875		4′
30	0,5510877		0,8344474	267,2	30	56	0,5683485		0,8296064		30
27′	0,5512091		0,8343672	267,3	33′	57′	0,5684692		0,8295252	270,8	3′
30	0,5513305		0,8342870	267,4	30	57	0,5685899	402,1	0,8294440		30
28′	0,5514518	404,4	0,8342068	267,5	32′	58′	0,5687105	402,0	0,8293627		2′
30	0,5515731	404,3	0,8341266		30	58	0,5688311		0,8292815		30
29′	0,5516944		0,8340463		31′	59′	0,5689517		0,8292002	270,9	1′
30	0,5518157		0,8339661	267,6	30	59	0,5690723	401,9	0,8291189	271,0	30
30′	0,5519370		0,8338858		30′	60′	0,5691929		0,8290376		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10′			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5591929		0,8290376		60′	30′	0,5664062		0,8241262		30′
38	0,5592135	401,8	0,8287553	271,2	38	38	0,5665261	399,5	0,8240438	274,7	38
1′	0,5592340		0,8284747		59′	31′	0,5666459		0,8239614		29′
38	0,5592545		0,8281956	271,3	38	38	0,5667657		0,8238790	274,8	38
2′	0,5592751	401,7	0,8279181		58′	32′	0,5668856	399,3	0,8237965		28′
38	0,5592957		0,8276407		38	38	0,5670054		0,8237141		38
3′	0,5593162		0,8273653	271,4	57′	33′	0,5671252		0,8236316	274,9	27′
38	0,5593367		0,8270899	271,5	38	38	0,5672450		0,8235491	275,0	38
4′	0,5593572		0,8268164	271,6	56′	34′	0,5673648		0,8234666	275,1	26′
38	0,5593777		0,8265429	271,7	38	38	0,5674846	399,2	0,8233841	275,2	38
5′	0,5593981	401,5	0,8262714		55′	35′	0,5676043	399,1	0,8233015		25′
38	0,5594186	401,4	0,8259998	271,8	38	38	0,5677240	399,0	0,8232190		38
6′	0,5594390	401,3	0,8257303		54′	36′	0,5678437		0,8231364	275,3	24′
38	0,5594594		0,8254608		38	38	0,5679635		0,8230538	275,4	38
7′	0,5594798		0,8251932	271,9	53′	37′	0,5680832		0,8229712	275,5	23′
				272,0							
38	0,5595002		0,8249256		38	38	0,5682029		0,8228886		38
8′	0,5595206		0,8246600	272,1	52′	38′	0,5683225	398,9	0,8228059	275,6	22′
38	0,5595410		0,8243944	272,2	38	38	0,5684422	398,8	0,8227232	275,7	38
9′	0,5595614		0,8241307		51′	39′	0,5685619		0,8226405		21′
38	0,5595818	401,2	0,8238671		38	38	0,5686815		0,8225578		38
10′	0,5596021		0,8236054		50′	40′	0,5688011		0,8224751		20′
38	0,5596225		0,8233437	272,3	38	38	0,5689207	398,7	0,8223924	275,8	38
11′	0,5596428	401,1	0,8230840	272,4	49′	41′	0,5690403		0,8223096	275,9	19′
38	0,5596631	401,0	0,8228243	272,5	38	38	0,5691599		0,8222268	276,0	38
12′	0,5596834	400,9	0,8225665		48′	42′	0,5692795	398,6	0,8221440		18′
		400,8						398,5			
38	0,5597037		0,8223088		38	38	0,5693991		0,8220612		38
13′	0,5597239		0,8220529	272,6	47′	43′	0,5695187		0,8219784	276,1	17′
38	0,5597442		0,8217969	272,7	38	38	0,5696382		0,8218956	276,2	38
14′	0,5597645		0,8215429		46′	44′	0,5697577		0,8218127		16′
38	0,5597847		0,8212889	272,8	38	38	0,5698773	398,4	0,8217298	276,3	38
15′	0,5598049	400,7	0,8210369		45′	45′	0,5699968	398,3	0,8216469		15′
38	0,5598251		0,8207850		38	38	0,5701163		0,8215640	276,4	38
16′	0,5598453		0,8205330	272,9	44′	46′	0,5702357		0,8214811	276,5	14′
38	0,5598655	400,6	0,8202831	273,0	38	38	0,5703552	398,2	0,8213982	276,6	38
17′	0,5598857	400,5	0,8200332	273,1	43′	47′	0,5704747		0,8213152	276,7	13′
				273,2							
38	0,5599059		0,8197833		38	38	0,5705942		0,8212322		38
18′	0,5599260		0,8195353		42′	48′	0,5707136	398,1	0,8211492	276,8	12′
38	0,5599462		0,8192873	273,3	38	38	0,5708330	398,0	0,8210662		38
19′	0,5599663	400,4	0,8190393		41′	49′	0,5709524		0,8209831		11′
38	0,5599864	400,3	0,8187932		38	38	0,5710718	397,9	0,8209001	276,9	38
20′	0,5600066		0,8185472	273,4	40′	50′	0,5711912		0,8208170		10′
38	0,5600267		0,8183011	273,5	38	38	0,5713106	397,8	0,8207339	277,0	38
21′	0,5600467		0,8180551	273,6	39′	51′	0,5714299		0,8206508		9′
38	0,5600668		0,8178090	273,7	38	38	0,5715492		0,8205677		38
22′	0,5600869	400,2	0,8175629		38′	52′	0,5716686		0,8204846	277,1	8′
										277,2	
38	0,5601070		0,8173169		38	38	0,5717880		0,8204015		38
23′	0,5601270	400,1	0,8170708		37′	53′	0,5719073		0,8203183	277,3	7′
38	0,5601470	400,0	0,8168247	273,8	38	38	0,5720266	397,7	0,8202351	277,4	38
24′	0,5601670		0,8165786	273,9	36′	54′	0,5721459	397,6	0,8201519	277,5	6′
38	0,5601870	399,9	0,8163313	274,0	38	38	0,5722651	397,5	0,8200687		38
25′	0,5602070		0,8160841		35′	55′	0,5723844		0,8199854		5′
38	0,5602270	399,8	0,8158368		38	38	0,5725037		0,8199022	277,6	38
26′	0,5602469		0,8155895	274,1	34′	56′	0,5726229		0,8198189	277,7	4′
38	0,5602669		0,8153422	274,2	38	38	0,5727422		0,8197356		38
27′	0,5602868		0,8150949		33′	57′	0,5728614	397,4	0,8196523	277,8	3′
				274,3				397,3			
38	0,5603067		0,8148475		38	38	0,5729806		0,8195690		38
28′	0,5603267		0,8146000	274,4	32′	58′	0,5730998	397,2	0,8194856		2′
38	0,5603466	399,7	0,8143525	274,5	38	38	0,5732190		0,8194023	277,9	38
29′	0,5603665	399,6	0,8141050		31′	59′	0,5733381		0,8193189	278,0	1′
38	0,5603864	399,5	0,8138575	274,6	38	38	0,5734573		0,8192355	278,1	38
30′	0,5604062		0,8136100		30′	60′	0,5735764		0,8191521		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10′	
0′	0,5735764	397,2	0,8191521	278,2	60′	30′	0,5807030	394,7	0,8141155	281,7	30′
3″	0,5736956	397,1	0,8190687		3″	3″	0,5808214	394,6	0,8140310		3″
1	0,5738147	397,0	0,8189852	278,3	59′	31′	0,5809397	394,5	0,8139465		29′
3″	0,5739338		0,8189017		3″	3″	0,5810581		0,8138620		3″
2′	0,5740529		0,8188182		58′	32′	0,5811765		0,8137775	281,8	28′
3″	0,5741720	396,9	0,8187347	278,4		3″	0,5812949		0,8136930		3″
3′	0,5742911	396,8	0,8186512	278,5	57′	33′	0,5814132	394,3	0,8136084		27′
3″	0,5744102		0,8185677	278,6	3″	3″	0,5815315		0,8135239	281,9	3″
4′	0,5745292	396,7	0,8184841	278,7	56′	34′	0,5816498		0,8134393	282,0	26′
3″	0,5746482		0,8184005		3″	3″	0,5817681		0,8133547	282,1	3″
5′	0,5747672		0,8183169		55′	35′	0,5818864		0,8132701	282,2	25′
3″	0,5748863		0,8182333		3″	3″	0,5820047		0,8131854		3″
6′	0,5750053		0,8181497	278,8	54′	36′	0,5821230	394,2	0,8131008	282,3	24′
3″	0,5751243	396,6	0,8180661	278,9	3″	3″	0,5822413	394,1	0,8130161		3″
7′	0,5752432	396,5	0,8179824	279,0	53′	37′	0,5823595	394,0	0,8129314		23′
3″	0,5753622		0,8178987		3″	3″	0,5824777		0,8128467	282,4	3″
8′	0,5754811		0,8178150		52′	38′	0,5825959		0,8127620	282,5	22′
3″	0,5756001	396,4	0,8177313	279,1	3″	3″	0,5827141		0,8126773	282,6	3″
9′	0,5757190	396,3	0,8176476	279,2	51′	39′	0,5828323		0,8125925	282,7	21′
3″	0,5758379		0,8175639		3″	3″	0,5829505	393,9	0,8125077		3″
10′	0,5759568		0,8174801	279,3	50′	40′	0,5830687	393,8	0,8124229	282,8	20′
3″	0,5760757		0,8173963		3″	3″	0,5831869		0,8123382		3″
11′	0,5761946	396,2	0,8173125		49′	41′	0,5833050	393,7	0,8122532		19′
3″	0,5763135		0,8172287	279,4	3″	3″	0,5834231		0,8121684	282,9	3″
12′	0,5764323		0,8171449	279,5	48′	42′	0,5835412		0,8120835	283,0	18′
3″	0,5765512	396,1	0,8170611	279,6	3″	3″	0,5836593		0,8119986		3″
13′	0,5766700	396,0	0,8169772	279,7	47′	43′	0,5837774		0,8119137		17′
3″	0,5767888		0,8168933		3″	3″	0,5838955	393,6	0,8118288	283,1	3″
14′	0,5769076		0,8168094	279,8	46′	44′	0,5840136	393,5	0,8117439	283,2	16′
3″	0,5770264	395,9	0,8167254		3″	3″	0,5841317	393,4	0,8116589		3″
15′	0,5771452	395,8	0,8166415		45′	45′	0,5842497	393,3	0,8115740	283,3	15′
3″	0,5772639		0,8165575	279,9	3″	3″	0,5843677		0,8114890	283,4	3″
16′	0,5773827		0,8164735	280,0	44′	46′	0,5844857		0,8114040	283,5	14′
3″	0,5775015		0,8163896		3″	3″	0,5846037		0,8113189		3″
17′	0,5776202	395,7	0,8163056		43′	47′	0,5847217		0,8112339		13′
3″	0,5777389		0,8162216	280,1	3″	3″	0,5848397		0,8111489	283,6	3″
18′	0,5778576		0,8161376	280,2	42′	48′	0,5849577	393,2	0,8110638	283,7	12′
3″	0,5779763	395,6	0,8160535		3″	3″	0,5850757	393,1	0,8109787		3″
19′	0,5780950	395,5	0,8159695	280,3	41′	49′	0,5851936	393,0	0,8108936	283,8	11′
3″	0,5782136		0,8158854	280,4	3″	3″	0,5853115		0,8108085		3″
20′	0,5783323		0,8158013	280,5	40′	50′	0,5854294		0,8107233		10′
3″	0,5784509	395,4	0,8157172		3″	3″	0,5855473		0,8106381		3″
21′	0,5785695	395,3	0,8156330		39′	51′	0,5856652		0,8105530	284,0	9′
3″	0,5786881		0,8155488	280,6	3″	3″	0,5857831	392,9	0,8104678	284,1	3″
22′	0,5788067		0,8154647	280,7	38′	52′	0,5859010	392,8	0,8103826	284,2	8′
3″	0,5789254		0,8153805		3″	3″	0,5860188		0,8102974		3″
23′	0,5790440		0,8152963	280,8	37′	53′	0,5861367		0,8102121		7′
3″	0,5791626		0,8152121		3″	3″	0,5862545		0,8101269		3″
24′	0,5792812	395,2	0,8151278		36′	54′	0,5863724	392,7	0,8100416	284,3	6′
3″	0,5793998	395,1	0,8150436	281,0	3″	3″	0,5864902	392,6	0,8099563	284,4	3″
25′	0,5795183	395,0	0,8149593	281,2	35′	55′	0,5866080	392,5	0,8098710	284,5	5′
3″	0,5796368		0,8148749		3″	3″	0,5867258		0,8097857		3″
26′	0,5797553		0,8147906		34′	56′	0,5868435		0,8097003		4′
3″	0,5798738		0,8147062		3″	3″	0,5869613		0,8096150	284,6	3″
27′	0,5799923	394,9	0,8146219		33′	57′	0,5870790		0,8095296	284,7	3′
3″	0,5801107	394,8	0,8145376		3″	3″	0,5871968		0,8094442		3″
28′	0,5802292		0,8144532	281,3	32′	58′	0,5873145	392,3	0,8093588	284,8	2′
3″	0,5803477		0,8143688	281,4	3″	3″	0,5874322		0,8092734		3″
29′	0,5804661		0,8142844	281,5	31′	59′	0,5875499		0,8091879		1′
3″	0,5805846		0,8142000	281,6	3″	3″	0,5876676		0,8091025	284,9	3″
30′	0,5807030		0,8141155		30′	60′	0,5877853		0,8090170		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,5877853	392,2	0,8090170	285,2	60′	30′	0,5948228	389,7	0,8038569	288,5	30′
3′	0,5879030	392,1	0,8089315	285,1	59′	31′	0,5949397	389,6	0,8037704		29′
1′	0,5880206	392,0	0,8088460	285,4	58′	32′	0,5950566	389,5	0,8036838	283,6	28′
3′	0,5881382		0,8087605		57′	33′	0,5951735		0,8035973	288,7	27′
2′	0,5882558		0,8086749	285,3	56′	34′	0,5952904		0,8035107		26′
3′	0,5883734		0,8085893		55′	35′	0,5954073		0,8034241	288,8	25′
3′	0,5884910		0,8085037		54′	36′	0,5955241		0,8033375		24′
3′	0,5886086	391,9	0,8084181	285,4	53′	37′	0,5956409	389,4	0,8032509		23′
4′	0,5887261	391,8	0,8083325	285,5	52′	38′	0,5957577	389,3	0,8031642	288,9	22′
3′	0,5888438		0,8082469		51′	39′	0,5958745		0,8030776		21′
3′	0,5889613		0,8081612		50′	40′	0,5959913		0,8029909	289,0	20′
3′	0,5890789		0,8080756	285,6	49′	41′	0,5961081		0,8029042	289,1	19′
6′	0,5891964	391,7	0,8079899	285,7	48′	42′	0,5962249	389,2	0,8028175	289,2	18′
3′	0,5893139	391,6	0,8079042		47′	43′	0,5963417	389,1	0,8027308		17′
7′	0,5894314	391,5	0,8078185	285,8	46′	44′	0,5964584	389,0	0,8026440		16′
3′	0,5895489		0,8077328	285,9	45′	45′	0,5965751		0,8025573		15′
8′	0,5896663		0,8076472	286,0	44′	46′	0,5966918		0,8024705	289,3	14′
3′	0,5897837		0,8075612		43′	47′	0,5968085		0,8023837	289,4	13′
9′	0,5899012		0,8074754		42′	48′	0,5969252		0,8022969	289,5	12′
3′	0,5900187	391,4	0,8073896	286,1	41′	49′	0,5970419	388,9	0,8022101	289,6	11′
10′	0,5901361	391,3	0,8073038	286,2	40′	50′	0,5971586	388,8	0,8021232	289,7	10′
3′	0,5902535		0,8072180		39′	51′	0,5972753		0,8020363		9′
11′	0,5903709		0,8071321	286,3	38′	52′	0,5973919	388,7	0,8019494		8′
3′	0,5904883		0,8070462		37′	53′	0,5975085		0,8018625	289,8	7′
12′	0,5906057	391,2	0,8069603		36′	54′	0,5976251		0,8017756		6′
3′	0,5907231	391,1	0,8068744	286,4	35′	55′	0,5977417		0,8016887		5′
13′	0,5908404	391,0	0,8067885	286,5	34′	56′	0,5978583		0,8016017		4′
3′	0,5909577		0,8067026	286,6	33′	57′	0,5979749	388,6	0,8015148	289,9	3′
14′	0,5910750		0,8066166	286,7	32′	58′	0,5980915	388,5	0,8014278	290,0	2′
3′	0,5911923		0,8065306		31′	59′	0,5982081	388,4	0,8013408	290,1	1′
15′	0,5913096		0,8064446		30′	60′	0,5983246	388,3	0,8012538	290,2	0′
3′	0,5914269	390,9	0,8063586		29′	61′	0,5984412		0,8011668		59′
16′	0,5915442	390,8	0,8062726	286,8	28′	62′	0,5985577		0,8010797		58′
3′	0,5916615		0,8061866	286,9	27′	63′	0,5986742		0,8009926		57′
17′	0,5917787		0,8061005	287,0	26′	64′	0,5987906		0,8009056	290,3	56′
3′	0,5918959		0,8060144	287,1	25′	65′	0,5989071		0,8008185	290,4	55′
18′	0,5920132		0,8059283	287,2	24′	66′	0,5990236	388,2	0,8007314	290,5	54′
3′	0,5921304	390,7	0,8058422		23′	67′	0,5991400	388,1	0,8006443	290,6	53′
19′	0,5922476	390,6	0,8057560		22′	68′	0,5992565	388,0	0,8005571	290,7	52′
3′	0,5923648	390,5	0,8056699		21′	69′	0,5993729		0,8004699		51′
20′	0,5924819		0,8055837	287,3	20′	70′	0,5994893		0,8003827		50′
3′	0,5925991		0,8054975		19′	71′	0,5996057		0,8002955		49′
21′	0,5927163		0,8054113		18′	72′	0,5997221		0,8002083	290,8	48′
3′	0,5928334	390,4	0,8053251	287,4	17′	73′	0,5998385	387,9	0,8001211		47′
22′	0,5929505	390,3	0,8052389	287,5	16′	74′	0,5999549	387,8	0,8000338		46′
3′	0,5930676		0,8051527	287,6	15′	75′	0,6000713		0,7999466	290,9	45′
23′	0,5931847		0,8050664	287,7	14′	76′	0,6001876	387,7	0,7998593	291,0	44′
3′	0,5933018		0,8049801		13′	77′	0,6003039		0,7997720	291,1	43′
24′	0,5934189	390,2	0,8048938	287,8	12′	78′	0,6004202		0,7996847	291,2	42′
3′	0,5935360		0,8048075		11′	79′	0,6005365	387,6	0,7995973		41′
25′	0,5936530		0,8047211		10′	80′	0,6006528	387,5	0,7995100	291,3	40′
3′	0,5937701	390,1	0,8046348	287,9	9′	81′	0,6007691		0,7994226		39′
26′	0,5938871	390,0	0,8045484	288,0	8′	82′	0,6008853		0,7993353		38′
3′	0,5940041	389,9	0,8044620		7′	83′	0,6010017		0,7992479	291,4	37′
27′	0,5941211	389,8	0,8043756		6′	84′	0,6011179		0,7991604	291,5	36′
3′	0,5942381		0,8042892	288,1	5′	85′	0,6012341	387,4	0,7990730	291,6	35′
28′	0,5943550		0,8042028	288,2	4′	86′	0,6013503	387,3	0,7989855	291,7	34′
3′	0,5944720		0,8041164		3′	87′	0,6014665		0,7988980		33′
29′	0,5945889		0,8040299		2′	88′	0,6015827		0,7988105		32′
3′	0,5947059		0,8039434	288,3	1′	89′	0,6016989	387,2	0,7987230		31′
30′	0,5948228		0,8038569		0′	90′	0,6018150		0,7986355		30′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6018150	387,2	0,7986355	291,8	60′	30′	0,6087614	384,7	0,7933533	295,2	30′
3′	0,6019312	387,1	0,7985480	291,9	3′	3′	0,6088768	384,6	0,7932648		3′
1′	0,6020474	387,0	0,7984604		59′	31′	0,6089922	384,5	0,7931762		29′
3′	0,6021634		0,7983728		3′	3′	0,6091075	384,4	0,7930876		3′
2′	0,6022793		0,7982852		58′	32′	0,6092229	384,3	0,7929990		28′
3′	0,6023956		0,7981976	292,1	3′	3′	0,6093382		0,7929104	295,3	3′
3′	0,6025117		0,7981100	292,0	57′	33′	0,6094536		0,7928218	295,5	27′
3′	0,6026278	386,9	0,7980224		3′	3′	0,6095688		0,7927332	295,5	3′
4′	0,6027439	386,8	0,7979347	292,3	56′	34′	0,6096841		0,7926445	295,7	26′
3′	0,6028599		0,7978470		3′	3′	0,6097994		0,7925558		3′
5′	0,6029760	386,7	0,7977593		55′	35′	0,6099147	384,2	0,7924671	295,8	25′
3′	0,6030920		0,7976716	292,4	3′	3′	0,6100300	384,1	0,7923784		3′
6′	0,6032080		0,7975839	292,5	54′	36′	0,6101452	384,0	0,7922896		24′
3′	0,6033240	386,6	0,7974962	292,6	3′	3′	0,6102604		0,7922009	296,9	3′
7′	0,6034400	386,5	0,7974084	292,7	53′	37′	0,6103756		0,7921121	296,0	23′
3′	0,6035559		0,7973206		3′	3′	0,6104908	383,9	0,7920233		3′
8′	0,6036719		0,7972328	292,7	52′	38′	0,6106060	383,8	0,7919345		22′
3′	0,6037879	386,4	0,7971450		3′	3′	0,6107212		0,7918457	296,1	3′
9′	0,6039038	386,3	0,7970572	292,8	51′	39′	0,6108363		0,7917569	296,2	21′
3′	0,6040197		0,7969694	292,9	3′	3′	0,6109515		0,7916681		3′
10′	0,6041356		0,7968815	293,0	50′	40′	0,6110666	383,7	0,7915792	296,3	20′
3′	0,6042515		0,7967936		3′	3′	0,6111818		0,7914903	296,4	3′
11′	0,6043674	386,2	0,7967057		49′	41′	0,6112969		0,7914014	296,5	19′
3′	0,6044833		0,7966178	293,1	3′	3′	0,6114119		0,7913125		3′
12′	0,6045991		0,7965299	293,2	48′	42′	0,6115270		0,7912235		18′
3′	0,6047150	386,1	0,7964420		3′	3′	0,6116421	383,6	0,7911346	296,6	3′
13′	0,6048308	386,0	0,7963540	293,3	47′	43′	0,6117572	383,5	0,7910456	296,7	17′
3′	0,6049466		0,7962660		3′	3′	0,6118723	383,4	0,7909566		3′
14′	0,6050624		0,7961780		46′	44′	0,6119873	383,3	0,7908676		16′
3′	0,6051782	385,9	0,7960900	293,4	3′	3′	0,6121023		0,7907785		3′
15′	0,6052940	385,8	0,7960020	293,5	45′	45′	0,6122173		0,7906895	296,8	15′
3′	0,6054098		0,7959140	293,6	3′	3′	0,6123323		0,7906005	296,9	3′
16′	0,6055255		0,7958259	293,7	44′	46′	0,6124473	383,2	0,7905115	297,0	14′
3′	0,6056413		0,7957378		3′	3′	0,6125623		0,7904224	297,1	3′
17′	0,6057570	385,7	0,7956497		43′	47′	0,6126772		0,7903333	297,2	13′
3′	0,6058727		0,7955616		3′	3′	0,6127922	383,1	0,7902442		3′
18′	0,6059884		0,7954735	293,8	42′	48′	0,6129071	383,0	0,7901550		12′
3′	0,6061041	385,6	0,7953854	293,9	3′	3′	0,6130220	382,9	0,7900659		3′
19′	0,6062198	385,5	0,7952972	294,0	41′	49′	0,6131369	382,8	0,7899767	297,3	11′
3′	0,6063355	385,4	0,7952090	294,1	3′	3′	0,6132518		0,7898875	297,4	3′
20′	0,6064511	385,3	0,7951208	294,2	40′	50′	0,6133666		0,7897983	297,5	10′
3′	0,6065668		0,7950325		3′	3′	0,6134815		0,7897091		3′
21′	0,6066824		0,7949443		39′	51′	0,6135964		0,7896198		9′
3′	0,6067982		0,7948560		3′	3′	0,6137112		0,7895306	297,6	3′
22′	0,6069136		0,7947678	294,3	38′	52′	0,6138260	382,7	0,7894413	297,7	8′
3′	0,6070292		0,7946795		3′	3′	0,6139408		0,7893520		3′
23′	0,6071447	385,2	0,7945912		37′	53′	0,6140556		0,7892627		7′
3′	0,6072603		0,7945029	294,4	3′	3′	0,6141704	382,6	0,7891734		3′
24′	0,6073758		0,7944146	294,5	36′	54′	0,6142852	382,5	0,7890841	297,8	6′
3′	0,6074914	385,1	0,7943263	294,6	3′	3′	0,6144000		0,7889948	297,9	3′
25′	0,6076069	385,0	0,7942379	294,7	35′	55′	0,6145147		0,7889054	298,0	5′
3′	0,6077224		0,7941496		3′	3′	0,6146296	382,4	0,7888160	298,1	3′
26′	0,6078379		0,7940611		34′	56′	0,6147442	382,3	0,7887266	298,2	4′
3′	0,6079534	384,9	0,7939727		3′	3′	0,6148589		0,7886372		3′
27′	0,6080689	384,8	0,7938843	294,8	33′	57′	0,6149736	382,2	0,7885477		3′
3′	0,6081844		0,7937959	294,9	3′	3′	0,6150883		0,7884583		3′
28′	0,6082998	384,7	0,7937074	295,0	32′	58′	0,6152029		0,7883688	298,3	2′
3′	0,6084152		0,7936189	295,1	3′	3′	0,6153176		0,7882793	298,4	3′
29′	0,6085306		0,7935304	295,2	31′	59′	0,6154322		0,7881898	298,5	1′
3′	0,6086460		0,7934419		3′	3′	0,6155469	382,1	0,7881002		3′
30′	0,6087614		0,7933533		30′	60′	0,6156615		0,7880107		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	d. T. 10″	
0′	0,6156615	382,0	0,7880107	298,5	60′	30′	0,6225146	379,3	0,7826082	301,8	30′
3′	0,6157761	381,9	0,7879212	298,6	3′	3′	0,6226284		0,7825177	301,9	3′
1′	0,6158907	381,8	0,7878316	298,7	59′	31′	0,6227423		0,7824271	302,0	29′
3′	0,6160053		0,7877420		3′	3′	0,6228561		0,7823365	302,1	3′
2′	0,6161198		0,7876524		58′	32′	0,6229698	379,2	0,7822459	302,2	28′
3′	0,6162343		0,7875628		3′	3′	0,6230836		0,7821553		3′
3′	0,6163489	381,7	0,7874732	298,8	57′	33′	0,6231974		0,7820646		27′
3′	0,6164635		0,7873836	298,9	3′	3′	0,6233111	379,1	0,7819740		3′
4′	0,6165780		0,7872939	299,0	56′	34′	0,6234248	379,0	0,7818833	302,3	26′
3′	0,6166926		0,7872042	299,1	3′	3′	0,6235385		0,7817926		3′
5′	0,6168069		0,7871145	299,2	55′	35′	0,6236522		0,7817019		25′
3′	0,6169214	381,6	0,7870248		3′	3′	0,6237659	378,9	0,7816112	302,4	3′
6′	0,6170359	381,5	0,7869350		54′	36′	0,6238796	378,8	0,7815205	302,5	24′
3′	0,6171504	381,4	0,7868452		3′	3′	0,6239933		0,7814298	302,6	3′
7′	0,6172648	381,3	0,7867553	299,3	53′	37′	0,6241069		0,7813390	302,7	23′
3′	0,6173792		0,7866657	299,4	3′	3′	0,6242206		0,7812482		3′
8′	0,6174936		0,7865759	299,5	52′	38′	0,6243342	378,7	0,7811574		22′
3′	0,6176080		0,7864861		3′	3′	0,6244478	378,6	0,7810666		3′
9′	0,6177224	381,2	0,7863962		51′	39′	0,6245614	378,5	0,7809757	302,8	21′
3′	0,6178368		0,7863064	299,6	3′	3′	0,6246750		0,7808849	302,9	3′
10′	0,6179511		0,7862165	299,7	50′	40′	0,6247885		0,7807940	303,0	20′
3′	0,6180655	381,1	0,7861266		3′	3′	0,6249021	378,4	0,7807031		3′
11′	0,6181798	381,0	0,7860367		49′	41′	0,6250156	378,3	0,7806122		19′
3′	0,6182941		0,7859468		3′	3′	0,6251292		0,7805213	303,1	3′
12′	0,6184084		0,7858569	299,8	48′	42′	0,6252427		0,7804304	303,2	18′
3′	0,6185227	380,9	0,7857670	299,9	3′	3′	0,6253562		0,7803395		3′
13′	0,6186370	380,8	0,7856770	300,0	47′	43′	0,6254696		0,7802485	303,3	17′
3′	0,6187513		0,7855870	300,1	3′	3′	0,6255831		0,7801575		3′
14′	0,6188655		0,7854970	300,2	46′	44′	0,6256966	378,2	0,7800665		16′
3′	0,6189797		0,7854070		3′	3′	0,6258101	378,1	0,7799755	303,4	3′
15′	0,6190939	380,7	0,7853169		45′	45′	0,6259235	378,0	0,7798845	303,5	15′
3′	0,6192082	380,6	0,7852268		3′	3′	0,6260369		0,7797936	303,6	3′
16′	0,6193224	380,5	0,7851368	300,3	44′	46′	0,6261503		0,7797024	303,7	14′
3′	0,6194366		0,7850467		3′	3′	0,6262637	377,9	0,7796113		3′
17′	0,6195507		0,7849566		43′	47′	0,6263771	377,8	0,7795202		13′
3′	0,6196648		0,7848665	300,4	3′	3′	0,6264905		0,7794291		3′
18′	0,6197790		0,7847764	300,5	42′	48′	0,6266038		0,7793380	303,8	12′
3′	0,6198932	380,4	0,7846863	300,6	3′	3′	0,6267172		0,7792469	303,9	3′
19′	0,6200073	380,3	0,7845961	300,7	41′	49′	0,6268305	377,7	0,7791557	304,0	11′
3′	0,6201214		0,7845059		3′	3′	0,6269438		0,7790645	304,1	3′
20′	0,6202356	380,2	0,7844157	300,8	40′	50′	0,6270571		0,7789733	304,2	10′
3′	0,6203496		0,7843255		3′	3′	0,6271704	377,6	0,7788821		3′
21′	0,6204636		0,7842352		39′	51′	0,6272837	377,5	0,7787908		9′
3′	0,6205777		0,7841450	300,9	3′	3′	0,6273970	377,4	0,7786996		3′
22′	0,6206917		0,7840547	301,0	38′	52′	0,6275102	377,3	0,7786083	304,3	8′
3′	0,6208058	380,1	0,7839644		3′	3′	0,6276234		0,7785170		3′
23′	0,6209198	380,0	0,7838741		37′	53′	0,6277366		0,7784257		7′
3′	0,6210338	379,9	0,7837838	301,1	3′	3′	0,6278499		0,7783344	304,4	3′
24′	0,6211478	379,8	0,7836935	301,2	36′	54′	0,6279631		0,7782431	304,5	6′
3′	0,6212618		0,7836032		3′	3′	0,6280763		0,7781518		3′
25′	0,6213757		0,7835128	301,3	35′	55′	0,6281894	377,2	0,7780604		5′
3′	0,6214896		0,7834224	301,4	3′	3′	0,6283026		0,7779691	304,6	3′
26′	0,6216036	379,7	0,7833320	301,5	34′	56′	0,6284157		0,7778777	304,7	4′
3′	0,6217175		0,7832416		3′	3′	0,6285289	377,1	0,7777863		3′
27′	0,6218314		0,7831511		33′	57′	0,6286420	377,0	0,7776949	304,8	3′
3′	0,6219453	379,6	0,7830607	301,6	3′	3′	0,6287551	376,9	0,7776036	304,9	3′
28′	0,6220592	379,5	0,7829702	301,7	32′	58′	0,6288682	376,8	0,7775120	305,0	2′
3′	0,6221731		0,7828797		3′	3′	0,6289813		0,7774206		3′
29′	0,6222870		0,7827892		31′	59′	0,6290943		0,7773290		1′
3′	0,6224008	379,4	0,7826987		3′	3′	0,6292074		0,7772375	305,1	3′
30′	0,6225146		0,7826082		30′	60′	0,6293204		0,7771460		0′
	co-sin.	10″ diff:	sin.	10″ diff.			co-sin.	10″ diff:	sin.	10″ diff:	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6293204	376,7	0,7771460	305,2	60′	30′	0,6360782	374,0	0,7716246	308,5	30′
30	0,6293434		0,7770945		30	30	0,6361904		0,7715321		30
1′	0,6295464		0,7769429	305,3	59′	31′	0,6363026		0,7714395		29′
30	0,6296594	376,6	0,7768913		30	30	0,6364148	373,9	0,7713470	308,6	30
2′	0,6297724	376,5	0,7767797		58′	32′	0,6365270	373,8	0,7712544	308,7	28′
30	0,6298854		0,7766881	305,4	30	30	0,6366392		0,7711618		30
3′	0,6299983		0,7765965	305,5	57′	33′	0,6367513		0,7710692	308,8	27′
30	0,6301113	376,4	0,7765049		30	30	0,6368634		0,7709766		30
4′	0,6302242	376,3	0,7764132	305,6	56′	34′	0,6369756	373,7	0,7708839		26′
30	0,6303371		0,7763215	305,7	30	30	0,6370877		0,7707913	308,9	30
5′	0,6304500		0,7762298		55′	35′	0,6371998		0,7706986	309,0	25′
30	0,6305629		0,7761381		30	30	0,6373119	373,6	0,7706059		30
6′	0,6306758	376,2	0,7760464	305,8	54′	36′	0,6374240	373,5	0,7705132		24′
30	0,6307887		0,7759547		30	30	0,6375361	373,4	0,7704205	309,1	30
7′	0,6309015		0,7758629		53′	37′	0,6376481	373,3	0,7703278	309,2	23′
30	0,6310144	376,1	0,7757712	305,9	30	30	0,6377601		0,7702351		30
8′	0,6311272	376,0	0,7756794	306,0	52′	38′	0,6378721		0,7701423	309,3	22′
30	0,6312400		0,7755876	306,1	30	30	0,6379841		0,7700495	309,4	30
9′	0,6313528		0,7754958	306,2	51′	39′	0,6380961		0,7699567	309,5	21′
30	0,6314656	375,9	0,7754040		30	30	0,6382081		0,7698639		30
10′	0,6315784	375,8	0,7753121	306,3	50′	40′	0,6383201	373,2	0,7697710		20′
30	0,6316912		0,7752202		30	30	0,6384321	373,1	0,7696782	309,6	30
11′	0,6318039	375,7	0,7751283		49′	41′	0,6385440	373,0	0,7695853	309,7	19′
30	0,6319166		0,7750364	306,4	30	30	0,6386559		0,7694924		30
12′	0,6320293		0,7749445	306,5	48′	42′	0,6387678		0,7693995		18′
30	0,6321420	375,6	0,7748526		30	30	0,6388797	372,9	0,7693066		30
13′	0,6322547	375,5	0,7747606		47′	43′	0,6389916	372,8	0,7692137	309,8	17′
30	0,6323674		0,7746687	306,6	30	30	0,6391035		0,7691208	309,9	30
14′	0,6324800		0,7745767	306,7	46′	44′	0,6392153		0,7690278	310,0	16′
30	0,6325927	375,4	0,7744847		30	30	0,6393327		0,7689348		30
15′	0,6327053	375,3	0,7743927	306,8	45′	45′	0,6394390	372,7	0,7688418		15′
30	0,6328180		0,7743007	306,9	30	30	0,6395508		0,7687488	310,1	30
16′	0,6329306		0,7742086	307,0	44′	46′	0,6396626		0,7686558	310,2	14′
30	0,6330431		0,7741165		30	30	0,6397744	372,6	0,7685628		30
17′	0,6331557	375,2	0,7740244		43′	47′	0,6398862	372,5	0,7684697	310,3	13′
30	0,6332683		0,7739323	307,1	30	30	0,6399980		0,7683766		30
18′	0,6333809		0,7738402	307,2	42′	48′	0,6401097		0,7682835		12′
30	0,6334934	375,1	0,7737480		30	30	0,6402215	372,4	0,7681904	310,4	30
19′	0,6336059	375,0	0,7736559		41′	49′	0,6403332	372,3	0,7680973	310,5	11′
30	0,6337185		0,7735638		30	30	0,6404449		0,7680042	310,6	30
20′	0,6338310		0,7734716	307,3	40′	50′	0,6405566	372,2	0,7679110	310,7	10′
30	0,6339435	374,9	0,7733794	307,4	30	30	0,6406683		0,7678178		30
21′	0,6340559	374,8	0,7732872	307,5	39′	51′	0,6407799		0,7677246		9′
30	0,6341684		0,7731950		30	30	0,6408916	372,1	0,7676314		30
22′	0,6342808		0,7731027		38′	52′	0,6410032	372,0	0,7675382	310,8	8′
30	0,6343933		0,7730105	307,6	30	30	0,6411148		0,7674450	310,9	30
23′	0,6345057	374,7	0,7729182	307,7	37′	53′	0,6412264		0,7673517	311,0	7′
30	0,6346181		0,7728259		30	30	0,6413380	371,9	0,7672584		30
24′	0,6347305		0,7727336	307,8	36′	54′	0,6414496	371,8	0,7671651		6′
30	0,6348429	374,6	0,7726413		30	30	0,6415612		0,7670718	311,1	30
25′	0,6349553	374,5	0,7725489		35′	55′	0,6416728		0,7669785	311,2	5′
30	0,6350677	374,4	0,7724566	307,9	30	30	0,6417843		0,7668852		30
26′	0,6351800	374,3	0,7723642	308,0	34′	56′	0,6418958	371,7	0,7667918		4′
30	0,6352923		0,7722718	308,1	30	30	0,6420074		0,7666985		30
27′	0,6354046		0,7721794	308,2	33′	57′	0,6421189		0,7666051	311,3	3′
30	0,6355169		0,7720870		30	30	0,6422304		0,7665117	311,4	30
28′	0,6356292	374,2	0,7719945		32′	58′	0,6423418	371,6	0,7664183	311,5	2′
30	0,6357415		0,7719020		30	30	0,6424533		0,7663249	311,6	30
29′	0,6358537		0,7718096	308,3	31′	59′	0,6425647		0,7662314	311,7	1′
30	0,6359660	374,1	0,7717171	308,4	30	30	0,6426762	371,4	0,7661379		30
30′	0,6360782		0,7716246		30′	60′	0,6427876		0,7660444		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6427876	371,3	0,7660444	311,7	60′	0′	0,6494480	368,7	0,7604060	315,0	30′
30	0,6429729		0,7659539		30	30	0,6496316	368,6	0,7603115		30
1′	0,6431581		0,7658634	311,8	59′	1′	0,6498152	368,5	0,7602170		29′
30	0,6433218		0,7657729		30	30	0,6499989		0,7601226	315,1	30
2′	0,6435054	371,2	0,7656823		58′	2′	0,6498080		0,7600280	315,2	28′
30	0,6436889		0,7655918	311,9	30	30	0,6500009	368,4	0,7599335		30
3′	0,6438724	371,1	0,7655012	312,0	57′	3′	0,6501114	368,3	0,7598389		27′
30	0,6440557	371,0	0,7654106		30	30	0,6502219		0,7597444		30
4′	0,6442389		0,7653200	312,1	56′	4′	0,6503324	368,2	0,7596498	315,3	26′
30	0,6443898	370,9	0,7652294	312,2	30	30	0,6504429		0,7595552	315,4	30
5′	0,6445911	370,8	0,7651387		55′	5′	0,6505533		0,7594606	315,5	25′
30	0,6447724		0,7650480		30	30	0,6506638	368,1	0,7593660		30
6′	0,6449236		0,7649574	312,3	54′	6′	0,6507742	368,0	0,7592713		24′
30	0,6450748		0,7648677	312,4	30	30	0,6508847		0,7591767	315,6	30
7′	0,6452461	370,7	0,7647340	312,5	53′	37′	0,6509951		0,7590820	315,7	23′
30	0,6454573		0,7645403		30	30	0,6511054		0,7589873		30
8′	0,6456685		0,7643465		52′	38′	0,6512158		0,7588926	315,8	22′
30	0,6458797	370,6	0,7641528	312,6	30	30	0,6513262	367,8	0,7587978		30
9′	0,6447207	370,5	0,7639590	312,7	51′	39′	0,6514366	367,7	0,7587031		21′
30	0,6449021		0,7642652		30	30	0,6515469		0,7586084	315,9	30
10′	0,6450132		0,7641714	312,8	50′	40′	0,6516572		0,7585136	316 0	20′
30	0,6451244	370,4	0,7640776		30	30	0,6517675		0,7584188	316,1	30
11′	0,6452355	370,3	0,7639837		49′	41′	0,6518778		0,7583240	316,2	19′
30	0,6453466		0,7638899	312,9	30	30	0,6519881	367,6	0,7582292		30
12′	0,6454577	370,2	0,7637960	313,0	48′	42′	0,6520984	367,5	0,7581343		18′
30	0,6455688		0,7637021		30	30	0,6522087		0,7580395		30
13′	0,6456798		0,7636082		47′	43′	0,6523189		0,7579446	316,3	17′
30	0,6457908		0,7635143	313,1	30	30	0,6524292	367,4	0,7578497		30
14′	0,6459017		0,7634204	313,2	46	44′	0,6525394	367,3	0,7577548		16′
30	0,6460130	370,1	0,7633265		30	30	0,6526495		0,7576599	316,4	30
15′	0,6461240	370,0	0,7632325	313,3	45′	45′	0,6527598	367,2	0,7575650	316,5	15′
30	0,6462350	369,9	0,7631386	313,4	30	30	0,6528700		0,7574701	316,6	30
16′	0,6463459	369,8	0,7630445	313,5	44′	46′	0,6529801		0,7573751	316,7	14′
30	0,6464570		0,7629505		30	30	0,6530903	367,1	0,7572801		30
17′	0,6465679		0,7628564		43′	47′	0,6532004	367,0	0,7571851	316,8	13′
30	0,6466788		0,7627624	313,6	30	30	0,6533105		0,7570900		30
18′	0,6467898	369,7	0,7626683	313,7	42′	48′	0,6534206		0,7569950		12′
30	0,6469007		0,7625742		30	30	0,6535307	366,9	0,7569000	316,9	30
19′	0,6470116		0,7624801		41′	49′	0,6536408	366,8	0,7568049	317,0	11′
30	0,6471225	369,6	0,7623860		30	30	0,6537509		0,7567098		30
20′	0,6472334	369,5	0,7622919	313,8	40′	50′	0,6538609		0,7566147		10′
30	0,6473443	369,4	0,7621978	313,9	30	30	0,6539709		0,7565196	317,1	30
21′	0,6474551	369,3	0,7621036	314,0	39′	51′	0,6540810	366,7	0,7564245	317,2	9′
30	0,6475659		0,7620094		30	30	0,6541910	366,6	0,7563294		30
22′	0,6476767		0,7619152		38′	52′	0,6543010	366,5	0,7562342		8′
30	0,6477875		0,7618210	314,1	30	30	0,6544110		0,7561390		30
23′	0,6478984		0,7617268	314,2	37′	53′	0,6545209		0,7560439	317,3	7′
30	0,6480092		0,7616326		30	30	0,6546309	366,4	0,7559487	317,4	30
24′	0,6481199	369,2	0,7615383	314,3	36′	54′	0,6547408	366,3	0,7558535	317,5	6′
30	0,6482307	369,1	0,7614440		30	30	0,6548508		0,7557583	317,6	30
25′	0,6483414	369,0	0,7613497		35′	55′	0,6549607		0,7556630	317,7	5′
30	0,6484521		0,7612555	314,4	30	30	0,6550705		0,7555677		30
26′	0,6485628		0,7611611	314,5	34′	56′	0,6551804	366,2	0,7554724		4′
30	0,6486735	368,9	0,7610668		30	30	0,6552903		0,7553771		30
27′	0,6487842	368,8	0,7609724		33′	57′	0,6554002		0,7552818	317,8	3′
30	0 6488949		0,7608780		30	30	0,6555100	366,1	0,7551865		30
28′	0,6490055		0,7607837	314,7	32′	58′	0,6556198	366,0	0,7550911		2′
30	0,6491162		0,7606893		30	30	0,6557297		0,7549958		30
29′	0,6492268	368,7	0,7605949	314,8	31′	59′	0,6558395		0,7549004	318,0	1′
30	0,6493374		0,7605005	314,9	30	30	0,6559493	366,9	0,7548050	318,1	30
30′	0,6494480		0,7604060		30′	60′	0,6560590		0,7547096		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6560590	365,8	0,7547096	318,2	60′	30′	0,6626200	363,0	0,7489557	321,3	30′
3′	0,6561688		0,7546142		3′	3′	0,6627290		0,7488593		3′
1′	0,6562785		0,7545187		59′	31′	0,6628379		0,7487629		29′
3′	0,6563882		0,7544232		3′	3′	0,6629468	362,9	0,7486665	321,4	3′
2′	0,6564980	365,7	0,7543278	318,3	58′	32′	0,6630557	362,8	0,7485701	321,5	28′
3′	0,6566077	365,6	0,7542323	318,4	3′	3′	0,6631646		0,7484737	321,6	3′
3′	0,6567174	365,5	0,7541368	318,5	57′	33′	0,6632734		0,7483772	321,7	27′
3′	0,6568271		0,7540413		3′	3′	0,6633822		0,7482807		3′
4′	0,6569367		0,7539457		56′	34′	0,6634910	362,7	0,7481842		26′
3′	0,6570464	365,4	0,7538502	318,6	3′	3′	0,6635999	362,6	0,7480877		3′
5′	0,6571560	365,3	0,7537546	318,7	55′	35′	0,6637087	362,5	0,7479912	321,8	25′
3′	0,6572656		0,7536590		3′	3′	0,6638175		0,7478947	321,9	3′
6′	0,6573752		0,7535634	318,8	54′	36′	0,6639262		0,7477981	322,0	24′
3′	0,6574848		0,7534678		3′	3′	0,6640350	362,4	0,7477015		3′
7′	0,6575944	365,2	0,7533721		53′	37′	0,6641437	362,3	0,7476049		23′
3′	0,6577040		0,7532765	318,9	3′	3′	0,6642525		0,7475083	322,1	3′
8′	0,6578135		0,7531808	319,0	52′	38′	0,6643612		0,7474117	322,2	22′
3′	0,6579231	365,1	0,7530851		3′	3′	0,6644699		0,7473151		3′
9′	0,6580326	365,0	0,7529894		51′	39′	0,6645785		0,7472184		21′
3′	0,6581421		0,7528937	319,1	3′	3′	0,6646872		0,7471217		3′
10′	0,6582516		0,7527980	319,2	50′	40′	0,6647959	362,2	0,7470251	322,3	20′
3′	0,6583611	364,9	0,7527023		3′	3′	0,6649045	362,1	0,7469284	322,4	3′
11′	0,6584706	364,8	0,7526065	319,3	49′	41′	0,6650131	362,0	0,7468317	322,5	19′
3′	0,6585801		0,7525107		3′	3′	0,6651218	361,9	0,7467350	322,6	3′
12′	0,6586895	364,7	0,7524149		48′	42′	0,6652304	361,8	0,7466382	322,7	18′
3′	0,6587989		0,7523191	319,4	3′	3′	0,6653389		0,7465414		3′
13′	0,6589083		0,7522233	319,5	47′	43′	0,6654475		0,7464446		17′
3′	0,6590177	364,6	0,7521275	319,6	3′	3′	0,6655560		0,7463478		3′
14′	0,6591271	364,5	0,7520316	319,7	46′	44′	0,6656646		0,7462510		16′
3′	0,6592365		0,7519357		3′	3′	0,6657732		0,7461542		3′
15′	0,6593458		0,7518398		45′	45′	0,6658817	361,7	0,7460574	322,8	15′
3′	0,6594552	364,4	0,7517439		3′	3′	0,6659902	361,6	0,7459606	322,9	3′
16′	0,6595645	364,3	0,7516480	319,8	44′	46′	0,6660987	361,5	0,7458637	323,0	14′
3′	0,6596738		0,7515521	319,9	3′	3′	0,6662072		0,7457668	323,1	3′
17′	0,6597831		0,7514561	320,0	43′	47′	0,6663156		0,7456699	323,2	13′
3′	0,6598924		0,7513601		3′	3′	0,6664241	361,4	0,7455729		3′
18′	0,6600017	364,2	0,7512641		42′	48′	0,6665325	361,3	0,7454760		12′
3′	0,6601110	364,1	0,7511681	320,1	3′	3′	0,6666409		0,7453791		3′
19′	0,6602202	364,0	0,7510721	320,2	41′	49′	0,6667493		0,7452821	323,3	11′
3′	0,6603294		0,7509761		3′	3′	0,6668577		0,7451851	323,4	3′
20′	0,6604386		0,7508800		40′	50′	0,6669661		0,7450881	323,5	10′
3′	0,6605478	363,9	0,7507839		3′	3′	0,6670745	361,2	0,7449911		3′
21′	0,6606570	363,8	0,7506879	320,3	39′	51′	0,6671828	361,1	0,7448940		9′
3′	0,6607662		0,7505918	320,4	3′	3′	0,6672911	361,0	0,7447970	323,6	3′
22′	0,6608754		0,7504957	320,5	38′	52′	0,6673994		0,7446999	323,7	8′
3′	0,6609845		0,7503996		3′	3′	0,6675077		0,7446028		3′
23′	0,6610936	363,7	0,7503034		37′	53′	0,6676160		0,7445057		7′
3′	0,6612028		0,7502073	320,6	3′	3′	0,6677243	360,9	0,7444086		3′
24′	0,6613119		0,7501111	320,7	36′	54′	0,6678326	360,8	0,7443115	323,8	6′
3′	0,6614210	363,6	0,7500149		3′	3′	0,6679408		0,7442144		3′
25′	0,6615300	363,5	0,7499187	320,8	35′	55′	0,6680490	360,7	0,7441172		5′
3′	0,6616391		0,7498225		3′	3′	0,6681573	360,6	0,7440201	323,9	3′
26′	0,6617482		0,7497262		34′	56′	0,6682655	360,5	0,7439229	324,0	4′
3′	0,6618572		0,7496300	320,9	3′	3′	0,6683737		0,7438257	324,1	3′
27′	0,6619662	363,4	0,7495337	321,0	33′	57′	0,6684818		0,7437285	324,2	3′
3′	0,6620752	363,3	0,7494374	321,1	3′	3′	0,6685899		0,7436313		3′
28′	0,6621842		0,7493411	321,2	32′	58′	0,6686981		0,7435340	324,3	2′
3′	0,6622932		0,7492448		3′	3′	0,6688062	360,4	0,7434367		3′
29′	0,6624022	363,2	0,7491484		31′	59′	0,6689144	360,3	0,7433394		1′
3′	0,6625111	363,1	0,7490521		3′	3′	0,6690225		0,7432421	324,4	3′
30′	0,6626200		0,7489557		30′	60′	0,6691306		0,7431448		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	diff. 10″	sin.	diff. 10″	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6691306	360,2	0,7431448	324,5	60′	30′	0,6755902	357,3	0,7372773	327,5	30′
36	0,6692387		0,7430475		36	35	0,6756774		0,7371791	327,6	35
1′	0,6693468		0,7429501		59′	31′	0,6758646		0,7370808	327,7	29′
36	0,6694548	360,1	0,7428528	324,6	36	35	0,6759518		0,7369825		35
2′	0,6695628	360,0	0,7427554	324,7	58′	32′	0,6760390	357,2	0,7368842	327,8	28′
36	0,6696709		0,7426580		36	36	0,6761262		0,7367859	327,9	35
3′	0,6697789		0,7425606	324,8	57′	33′	0,6762133		0,7366875	328,0	27′
36	0,6698869	359,9	0,7424632		36	35	0,6763005	357,1	0,7365891		35
4′	0,6699948	359,8	0,7423657		56′	34′	0,6764876	357,0	0,7364907		26′
36	0,6701028		0,7422683	324,9	36	35	0,6765747		0,7363923		35
5′	0,6702108		0,7421708	325,0	55′	35′	0,6766618		0,7362939		25′
36	0,6703187		0,7420733		36	35	0,6767489	356,9	0,7361955	328,1	35
6′	0,6704266	359,7	0,7419758		54′	36′	0,6768360	356,8	0,7360971	328,2	24′
36	0,6705345		0,7418783	325,1	36	35	0,6769230		0,7359987		35
7′	0,6706424		0,7417808	325,2	53′	37′	0,6770101	356,7	0,7359002	328,3	23′
36	0,6707503	359,6	0,7416832		36	35	0,6771971		0,7358017	328,4	35
8′	0,6708582	359,5	0,7415857	325,3	52′	38′	0,6772841		0,7357032	328,5	22′
36	0,6709661	359,4	0,7414881		36	35	0,6774111	356,6	0,7356047		35
9′	0,6710739	359,3	0,7413905		51′	39′	0,6775481	356,5	0,7355061		21′
36	0,6711817		0,7412929	325,4	36	35	0,6776251		0,7354075	328,6	35
10′	0,6712895		0,7411953	325,5	50′	40′	0,6777120		0,7353090	328,7	20′
36	0,6713973		0,7410977	325,6	36	35	0,6778390	356,4	0,7352104		35
11′	0,6715051	359,2	0,7410000	325,7	49′	41′	0,6779459	356,3	0,7351118		19′
36	0,6716129		0,7409023		36	35	0,6780528		0,7350132		35
12′	0,6717206		0,7408046		48′	42′	0,6781597	356,2	0,7349146	328,8	18′
36	0,6718284	359,1	0,7407069		36	35	0,6782665		0,7348160	328,9	35
13′	0,6719361	359,0	0,7406092	325,8	47′	43′	0,6783734		0,7347173	329,0	17′
36	0,6720438	358,9	0,7405115	325,9	36	35	0,6784803	356,1	0,7346186		35
14′	0,6721515	358,8	0,7404137	326,0	46′	44′	0,6785871	356,0	0,7345199		16′
36	0,6722592		0,7403159		36	35	0,6786939		0,7344212	329,1	35
15′	0,6723668		0,7402181		45′	45′	0,6788007		0,7343225	329,2	15′
36	0,6724745		0,7401203	326,1	36	35	0,6789076	355,9	0,7342238		35
16′	0,6725821	358,7	0,7400225	326,2	44′	46′	0,6790143	355,8	0,7341250		14′
36	0,6726897		0,7399247		36	35	0,6791211		0,7340262		35
17′	0,6727973		0,7398268		43′	47′	0,6792278		0,7339275	329,3	13′
36	0,6729049	358,6	0,7397290		36	35	0,6793346		0,7338287	329,4	35
18′	0,6730125	358,5	0,7396311	326,3	42′	48′	0,6794413	355,7	0,7337299	329,5	12′
36	0,6731201		0,7395332	326,4	35	35	0,6795480		0,7336311		35
19′	0,6732276		0,7394353	326,5	41′	49′	0,6796547		0,7335322		11′
36	0,6733352	358,4	0,7393374		35	35	0,6797614	355,6	0,7334334	329,6	35
20′	0,6734427	358,3	0,7392394		40′	50′	0,6798681	355,5	0,7333345	329,7	10′
36	0,6735502		0,7391415	326,6	36	35	0,6799747	355,4	0,7332356		35
21′	0,6736577		0,7390435	326,7	39′	51′	0,6800813	355,3	0,7331367	329,8	9′
36	0,6737652		0,7389455		35	35	0,6801880		0,7330378		35
22′	0,6738727	358,2	0,7388475		38′	52′	0,6802946		0,7329388		8′
36	0,6739802	358,1	0,7387495		35	35	0,6804012		0,7328399	329,9	35
23′	0,6740876	358,0	0,7386515	326,8	37′	53′	0,6805078	355,2	0,7327409	330,0	7′
36	0,6741950		0,7385535	326,9	35	35	0,6806144	355,1	0,7326419	330,1	35
24′	0,6743024		0,7384554	327,0	36′	54′	0,6807209	355,0	0,7325429	330,2	6′
36	0,6744098	357,9	0,7383573	327,1	35	35	0,6808274		0,7324439		35
25′	0,6745172	357,8	0,7382592	327,2	35′	55′	0,6809339		0,7323448	330,3	5′
36	0,6746246		0,7381610		35	35	0,6810404		0,7322457		35
26′	0,6747319		0,7380629		34′	56′	0,6811469		0,7321467		4′
36	0,6748393		0,7379648		35	35	0,6812534	354,9	0,7320476		35
27′	0,6749466	357,7	0,7378666	327,3	33′	57′	0,6813599	354,8	0,7319485		3′
36	0,6750539	357,6	0,7377684		35	35	0,6814664		0,7318494	330,4	35
28′	0,6751612	357,5	0,7376702		32′	58′	0,6815728	354,7	0,7317503	330,5	2′
36	0,6752685		0,7375720	327,4	35	35	0,6816792		0,7316512		35
29′	0,6753757		0,7374738	327,5	31′	59′	0,6817856		0,7315520		1′
36	0,6754830	357,4	0,7373755		35	35	0,6818920	354,6	0,7314529	330,6	35
30′	0,6755902		0,7372773		30′	60′	0,6819984		0,7313537		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6819984	354,5	0,7313537	330,7	60′	30′	0,6883546	351,7	0,7253744	333,8	30′
30	0,6821048	354,4	0,7312545		30	30	0,6884601	351,6	0,7252743		30
1′	0,6822111	354,3	0,7311553	330,8	59′	31′	0,6885655	351,5	0,7251741		29′
30	0,6823174		0,7310561		30	30	0,6886710		0,7250740	333,9	30
2′	0,6824237		0,7309568		58′	32′	0,6887765		0,7249738	334,0	28′
30	0,6825300		0,7308576	330,9		30	0,6888819	351,4	0,7248736	334,1	30
3′	0,6826363	354,2	0,7307583	331,0	57′	33′	0,6889873	351,3	0,7247734	334,2	27′
30	0,6827426		0,7306590	331,1	30	30	0,6890927		0,7246731		30
4′	0,6828489		0,7305597	331,2	56′	34′	0,6891981		0,7245729		26′
30	0,6829551	354,1	0,7304604		30	30	0,6893035		0,7244727		30
5′	0,6830613	354,0	0,7303610		55′	35′	0,6894089	351,2	0,7243724	334,3	25′
30	0,6831676		0,7302616		30	30	0,6895142	351,1	0,7242721		30
6′	0,6832738		0,7301623	331,3	54′	36′	0,6896195	351,0	0,7241718		24′
30	0,6833800	353,9	0,7300629	331,4	30	30	0,6897249	350,9	0,7240715	334,4	30
7′	0,6834861	353,8	0,7299635	331,5	53′	37′	0,6898302	350,8	0,7239712	334,5	23′
30	0,6835923		0,7298641		30	30	0,6899355		0,7238709		30
8′	0,6836984		0,7297646		52′	38′	0,6900407		0,7237705		22′
30	0,6838045		0,7296652	331,6	30	30	0,6901460		0,7236702	334,6	30
9′	0,6839107	353,7	0,7295657	331,7	51′	39′	0,6902512		0,7235698	334,7	21′
30	0,6840168	353,6	0,7294662		30	30	0,6903564		0,7234694		30
10′	0,6841229	353,5	0,7293667		50′	40′	0,6904617	350,7	0,7233690	334,8	20′
30	0,6842290		0,7292672		30	30	0,6905669	350,6	0,7232686	334,9	30
11′	0,6843350		0,7291677	331,8	49′	41′	0,6906721	350,5	0,7231681	335,0	19′
30	0,6844411	353,4	0,7290682	331,9	30	30	0,6907773		0,7230676		30
12′	0,6845471	353,3	0,7289686	332,0	48′	42′	0,6908824		0,7229671		18′
30	0,6846531		0,7288690		30	30	0,6909876	350,4	0,7228666		30
13′	0,6847591		0,7287694		47′	43′	0,6910927	350,3	0,7227661		17′
30	0,6848651		0,7286698	332,1	30	30	0,6911978		0,7226656	335,1	30
14′	0,6849711	353,2	0,7285702	332,2	46	44′	0,6913029		0,7225651	335,2	16′
30	0,6850771	353,1	0,7284706		30	30	0,6914080		0,7224646		30
15′	0,6851830	353,0	0,7283709		45′	45′	0,6915131	350,2	0,7223640	335,3	15′
30	0,6852889		0,7282712		30	30	0,6916182	350,1	0,7222634	335,4	30
16′	0,6853948		0,7281716	332,3	44′	46′	0,6917232	350,0	0,7221628	335,5	14′
30	0,6855007	352,9	0,7280719	332,4	30	30	0,6918282		0,7220622		30
17′	0,6856066	352,8	0,7279722	332,5	43′	47′	0,6919332		0,7219615		13′
30	0,6857125		0,7278725		30	30	0,6920382	349,9	0,7218609	335,6	30
18′	0,6858184		0,7277727		42′	48′	0,6921432	349,8	0,7217602	335,7	12′
30	0,6859242		0,7276730	332,6	30	30	0,6922482		0,7216595		30
19′	0,6860300	352,7	0,7275732	332,7	41′	49′	0,6923531		0,7215588		11′
30	0,6861358		0,7274734		30	30	0,6924580		0,7214581		30
20′	0,6862416		0,7273736		40′	50′	0,6925630	349,7	0,7213574	335,8	10′
30	0,6863474	352,6	0,7272738		30	30	0,6926679	349,6	0,7212567		30
21′	0,6864532	352,5	0,7271740	332,8	39′	51′	0,6927728	349,5	0,7211559		9′
30	0,6865590	352,4	0,7270742	332,9	30	30	0,6928777		0,7210552	335,9	30
22′	0,6866647	352,3	0,7269743	333,0	38′	52′	0,6929825		0,7209544	336,0	8′
30	0,6867704		0,7268744		30	30	0,6930874	349,4	0,7208536	336,1	30
23′	0,6868761		0,7267745		37′	53′	0,6931922	349,3	0,7207528	336,2	7′
30	0,6869818		0,7266746	333,1	30	30	0,6932970		0,7206520		30
24′	0,6870875		0,7265747	333,2	36′	54′	0,6934018		0,7205511		5′
30	0,6871932	352,2	0,7264748		30	30	0,6935066		0,7204502		30
25′	0,6872988		0,7263748		35′	55′	0,6936114	349,2	0,7203494	336,3	5′
30	0,6874045		0,7262748	333,3	30	30	0,6937162		0,7202485	336,4	30
26′	0,6875101	352,1	0,7261748		34′	56′	0,6938209		0,7201476	336,5	4′
30	0,6876157	352,0	0,7260748	333,4	30	30	0,6939257	349,1	0,7200467		30
27′	0,6877213	351,9	0,7259748	333,5	33′	57′	0,6940304	349,0	0,7199457		3′
30	0,6878269	351,8	0,7258748		30	30	0,6941351		0,7198448	336,6	30
28′	0,6879325		0,7257747		32′	58′	0,6942398	348,9	0,7197438	336,7	2′
30	0,6880380		0,7256747	333,6	30	30	0,6943445	348,8	0,7196428		30
29′	0,6881435	351,7	0,7255746	333,7	31′	59′	0,6944491		0,7195418		1′
30	0,6882490		0,7254745		30	30	0,6945538		0,7194408		30
30′	0,6883546		0,7253744		30′	60′	0,6946584		0,7193398		0′
	co-sin.	10″ diff.	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

	sin.	diff. 10″	co-sin.	diff. 10″			sin.	diff. 10″	co-sin.	diff. 10″	
0′	0,6346884	348,7	0,7193398	336,8	60′	30′	0,7009093	345,7	0,7132505	339,8	30′
3′	0,6349630	348,6	0,7192388	336,9	3′	3′	0,7010130		0,7131486	339,9	3′
1	0,6348976	348,5	0,7191377	337,0	59′	31′	0,7011167		0,7130466	340,0	29′
3′	0,6351722		0,7190365		3′	3′	0,7012204	345,6	0,7129446	340,1	3′
2′	0,6350767		0,7189355		58′	32′	0,7013241	345,5	0,7128426	340,2	28′
3′	0,6351812		0,7188344	337,1	3′	3′	0,7014278		0,7127406		3′
3′	0,6352858		0,7187333	337,2	57′	33′	0,7015314		0,7126385		27′
3′	0,6353904	348,4	0,7186321		3′	3′	0,7016351	345,4	0,7125364		3′
4′	0,6354949	348,3	0,7185310		56′	34′	0,7017387	345,3	0,7124344	340,3	26′
3′	0,6356994		0,7184298		3′	3′	0,7018423		0,7123323		3′
5′	0,6357039	348,2	0,7183287	337,3	55′	35′	0,7019459	345,2	0,7122302		25′
3′	0,6358084		0,7182275	337,4	3′	3′	0,7020496		0,7121281	340,4	3′
6′	0,6359128		0,7181263	337,5	54′	36′	0,7021531		0,7120260	340,5	24′
3′	0,6360173	348,1	0,7180251		3′	3′	0,7022566	345,1	0,7119238		3′
7′	0,6361217	348,0	0,7179238		53′	37′	0,7023601	345,0	0,7118217		23′
3′	0,6362261	347,9	0,7178226	337,6	3′	3′	0,7024637		0,7117196	340,6	3′
8′	0,6363305	347,8	0,7177213	337,7	52′	38′	0,7025672		0 7116174	340,7	22′
3′	0,6364349		0,7176200		3′	3′	0,7026707	344,9	0,7115152		3′
9′	0,6365392		0,7175187		51′	39′	0,7027741	344,8	0,7114130		21′
3′	0,6366436		0,7174174		3′	3′	0,7028776		0 7113108		3′
10′	0,6367479	347,7	0,7173161	337,8	50′	40′	0,7029811		0,7112086	340,8	20′
3′	0,6368522		0,7172148	337,9	3′	3′	0,7030845		0,7111064	340,9	3′
11′	0,6369565		0,7171134	338,0	49′	41′	0,7031879	344,7	0,7110041	341,0	19′
3′	0,6370608	347,6	0,7170120		3′	3′	0,7032913	344,6	0,7109018	341,1	3′
12′	0,6371651	347,5	0,7169106		48′	42′	0,7033947	344,5	0,7107995	341,2	18′
3′	0,6372694		0,7168092	338,1	3′	3′	0,7034980		0,7106971		3′
13′	0,6373736		0,7167078	338,2	47′	43′	0,7036014		0,7105948		17′
3′	0,6374777	347,4	0,7166064		3′	3′	0,7037048	344,4	0,7104925		3′
14′	0,6375821	347,3	0,7165049	338,3	46′	44′	0,7038081	344,3	0,7103901		16′
3′	0,6376863		0,7164034		3′	3′	0,7039114		0,7102877		3′
15′	0,6377905	347,2	0,7163019		45′	45′	0,7040147		0,7101854	341,3	15′
3′	0,6378947		0,7162004	338,4	3′	3′	0,7041180		0,7100830	341,4	3′
16′	0,6379988		0,7160989	338,5	44′	46′	0,7042213	344,2	0,7099806	341,5	14′
3′	0,6381030	347,1	0,7159974		3′	3′	0,7043246	344,1	0,7098782	341,6	3′
17′	0,6382071	347,0	0,7158958		43′	47′	0,7044278	344,0	0,7097757	341,7	13′
3′	0,6383112		0,7157943		3′	3′	0,7045310		0,7096732		3′
18′	0,6384153	346,9	0,7156927	338,7	42′	48′	0,7046342		0,7095707		12′
3′	0,6385194	346,8	0,7155911		3′	3′	0,7047374	343,9	0,7094682		3′
19′	0,6386234		0,7154895		41′	49′	0,7048406	343,8	0,7093657		11′
3′	0,6387274		0,7153879		3′	3′	0,7049438		0,7092632		3′
20′	0,6388315		0,7152863	338,8	40′	50′	0,7050469		0,7091607	341,8	10′
3′	0,6389355		0,7151847	338,9	3′	3′	0,7051500		0,7090582	341,9	3′
21′	0,6390396	346,7	0,7150830	339,0	39′	51′	0,7052532	343,7	0,7089556	342,0	9′
3′	0,6391436	346,6	0,7149813		3′	3′	0,7053563	343,6	0,7088530	342,1	3′
22′	0,6392476	346,5	0,7148796		38′	52′	0,7054594	343,5	0,7087504	342,2	8′
3′	0,6393516	346,4	0,7147779	339,1	3′	3′	0,7055625		0,7086478		3′
23′	0,6394555	346,3	0,7146762	339,2	37′	53′	0,7056655		0,7085451		7′
3′	0,6395594		0,7145745		3′	3′	0,7057686	343,4	0,7084425		3′
24′	0,6396633		0,7144727		36′	54′	0,7058716	343,3	0,7083398		6′
3′	0,6397672		0,7143709	339,3	3′	3′	0,7059746		0,7082371		3′
25′	0,6398711		0,7142691		35′	55′	0,7060776	343,2	0,7081345	342,3	5′
3′	0,6399750		0,7141673	339,4	3′	3′	0,7061805		0,7080318	342,4	3′
26′	0,7000788	346,2	0,7140655	339,5	34′	56′	0,7062835		0,7079291	342,5	4′
3′	0,7001828	346,1	0,7139637		3′	3′	0,7063865		0,7078264	342,6	3′
27′	0,7002866	346,0	0,7138618		33′	57′	0,7064894		0,7077236	342,7	3′
3′	0,7003904		0,7137600	339,6	3′	3′	0,7065924	343,1	0,7076208		3′
28′	0,7004942		0,7136581	339,7	32′	58′	0,7066953	343,0	0,7075180		2′
3′	0,7005980		0,7135562		3′	3′	0,7067982	342,9	0,7074152		3′
29′	0,7007018	345,8	0,7134543		31′	59′	0,7069011	342,8	0,7073124		1′
3′	0,7008056		0,7133524		3′	3′	0,7070040		0,7072096		3′
30′	0,7009093		0,7132505		30′	60′	0,7071068		0,7071068		0′
	co-sin.	10″ diff	sin.	10″ diff.			co-sin.	10″ diff.	sin.	10″ diff.	

FINIS.